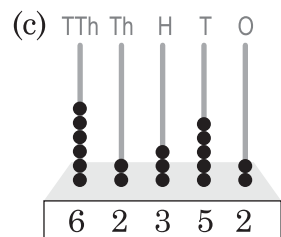
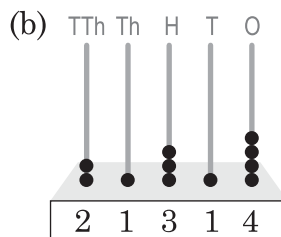
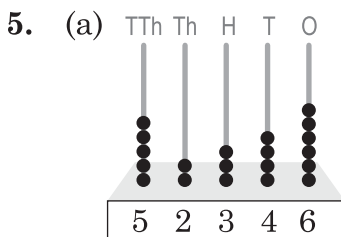


Quick Recall!!

- (a) 4480 (b) 6534 (c) 9999 (d) 700 (e) 9764 (f) 5997 (g) 2035 (h) Two thousand seven hundred three (i) 492, 6763, 9362 (j) 6542, 6462, 6292

Practice Coach - 1!

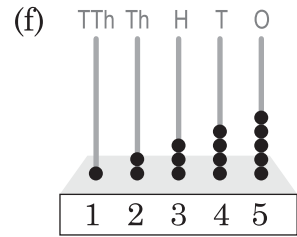
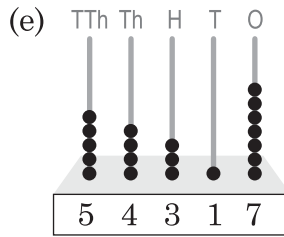
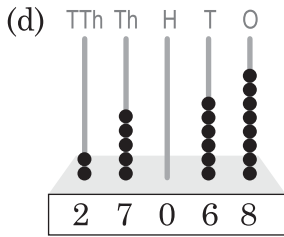
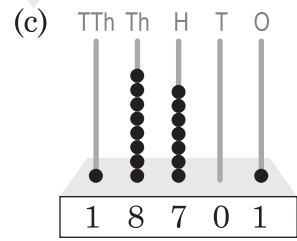
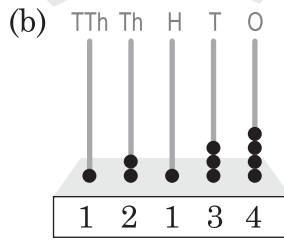
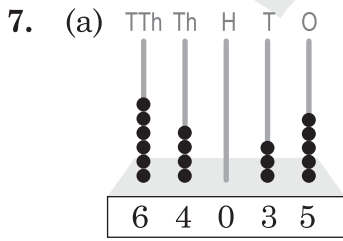
- (a) three (b) ones (c) 1000, 99999 (d) six (e) five
- (a) Sixty seven thousand three hundred two (b) Eighty-seven thousand Six-hundred eighty-three (c) Seven lakh thirty-five thousand four hundred (d) Nineteen thousand two hundred eighty-three (e) Ninety-nine thousand nine hundred ninety-nine (f) Sixty two thousand two hundred (g) Ninety thousand six hundred sixty-five (h) Three lakh thirty-five thousand one hundred fifty-two (i) Nine lakh sixty-five thousand four hundred (j) Five lakh two hundred ninety (k) Seven lakh eighty three thousand nine hundred fifty-two (l) Ninety-eight thousand one hundred five
- (a) 44,010 (b) 1,68,000 (c) 21,562 (d) 91,242 (e) 63,015 (f) 2,72,220
- (a) $60000+8000+300+90$ (b) $300000+40000+5000+600+80+3$
(c) $900000+70000+6000+100$ (d) $200000+40000+8000+100+90+3$
(e) $50000+1000+200+70+6$ (f) $30000+4000+200+0+8$
(g) $40000+5000+900+0+5$ (h) $100000+80000+3000+200+70+6$



- (a) 55346 (b) 21714 (c) 42352 (d) 62355

6. (a) 23215 (b) 45320 (c) 32972 (d) 71500





8.

Thousands Period			Ones Period		
	TTh	Th	H	T	O
a)	5	3	1	9	0
b)	7	3	5	0	8
c)	1	9	7	6	3
d)	2	3	4	1	0
e)	5	2	3	1	6
f)	4	2	3	6	2
g) 1	1	9	6	7	8
h) 2	0	1	1	5	4
i) 5	4	3	6	2	3

9. (a) 5 hundreds or 500 (b) 5 thousands or 5000 (c) 0 hundreds or 0
 (d) 6 hundreds or 600 (e) 4 ones or 4 (f) 80 thousands or 80000 (g) 3
 hundreds or 300 (h) 9 thousands or 9000

10. (a) 94,374 (b) 1,27,603 (c) 70,458

Practice Coach - 2 !

- (a) $87052+1=87053$ (b) $196834+1=196835$ (c) $14799+1=14800$
 (d) $18999+1=19000$ (e) $29999+1=30000$ (f) $768315+1=768316$
 (g) $40658+1=40659$ (h) $573658+1=573659$
- (a) $400-1=39999$ (b) $35685-1=35684$ (c) $57608-1=57607$
 (d) $109923-1=109922$ (e) $82319-1=82318$ (f) $729202-1=729201$
 (g) $700765-1=700764$ (h) $23241-1=23240$



3. (a) 83014, 83012 (b) 193481, 193480 (c) 140050, 140049
4. (a) 78533, 78534, 78535 (b) 94034, 94035, 94036
(c) 40022, 40023, 40024
5. (a) 81780, 81781, 81782 (b) 97659, 97660, 97661 (c) 58701, 58702, 58703
(d) 32577, 32578, 32579

Practice Coach - 3 !

1. (a) 83048 (b) 54678 2. (a) 26384 (b) 73423
3. (a) 20993, 20999, 23902, 29003 (b) 61107, 71109, 76799, 91106
(c) 82734, 876542, 892492, 897238 4. (a) 54311, 43155, 43125, 11543
(b) 73428, 24698, 18395, 17685 (c) 96588, 90595, 86345, 54985
5. (a) < (b) > (c) < (d) = (e) > (f) > (g) = (h) = (i) < (j) <

Practice Coach - 4 !

1.	Digits	Greatest Number	Smallest Number
(a)	6,0,1,9,5	96510	10569
(b)	4,3,1,9,2	94321	12349
(c)	7,6,8,3,1	87631	13678
(d)	4,9,7,8,2	98742	24789
(e)	2,0,5,1,7	75210	10257
(f)	7,0,8,6,4	87640	40678
(g)	3,7,8,5,9	98573	37589
(h)	1,5,3,4,8	85431	13458

2. (a) 1 more than 99,999 = 1,00,000
(b) Smallest number using 8,5,9,1,7 = 15789
(c) Greatest number using 2,0,6,8,4 = 86420
(d) 1 less than 1000 = 999
(e) Greatest five digit = 99,999

Practice Coach - 5 !

1. (a) 37450 (b) 29340 (c) 750 (d) 55560 (e) 8760 (f) 6070
2. (a) 354600 (b) 19700 (c) 79100 (d) 86900 (e) 21400 (f) 41200
3. (a) 22000 (b) 75000 (c) 61000 (d) 49000 (e) 1000 (f) 61000
4. (a) 70000 (b) 30000 (c) 20000 (d) 50000 (e) 70000 (f) 90000

Mental Maths

1. 15206 2. 10258 3. 97642 4. 1400 5. 3999 6. 6 thousand or 6000 7. 99998 8. 74321 9. 24000 10. 1001



Multiple Choice Questions (MCQs) :

1. (c) 9 2. (c) 70,000 3. (b) 99,999 4. (b) 38,065 5. (c) 0

Chapter

2

Roman Numerals

Practice Coach - 1 !

1. (a) $5 \Rightarrow V$ 2. (a) 2-II (b) 5-V (c) 29-XXIX (d) 38-XXXVIII
(b) $50 \Rightarrow L$ (e) 27-XXVII (f) 50-L (g) 46-XLVI (h) $40=XL$
(i) 16-XVI (j) 19-XIX
(c) $1 \Rightarrow I$ 3. (a) III-3 (b) X-10 (c) XVIII-18 (d) VII-7
(d) $100 \Rightarrow C$ (e) XXV-25 (f) XXVI-26 (g) XII-12
(e) $10 \Rightarrow X$ (h) XXXVII-37 (i) XL-15 (j) XLII-42
4. (a) $1+3=4$ (b) $5+2=7$
5. (a) XIII, XIV, XV (b) XXVI, XXVII, XXVIII (c) XXXIX, XL, XLI
(d) V, VI, VII (e) XLIV, XLV, XLVI
6. (a) $<$ (b) $<$ (c) $<$ (d) $=$ (e) $>$

Mental Maths

1. 1 2. 50 3. 500 4. 1000 5. 10

Multiple Choice Questions (MCQs) :

1. (a) 40 2. (c) 35 3. (a) 44 4. (b) 50 5. (c) 39

Chapter

3

Addition and Subtraction

Practice Coach - 1 !

1. (a)

TTh	Th	H	T	O
2	4	2	4	7
+ 4	5	1	2	1
6	9	3	6	8

 (b)

TTh	Th	H	T	O
1	3	4	2	1
+ 2	4	3	5	7
3	7	7	7	8

 (c)

TTh	Th	H	T	O
3	4	6	7	2
+ 1	2	1	2	1
4	6	7	9	3
- (d)

TTh	Th	H	T	O
4	0	0	5	2
+ 1	2	5	0	1
5	2	5	5	3

 (e)

TTh	Th	H	T	O
1	5	3	2	5
+ 5	2	1	5	2
6	7	4	7	7

 (f)

TTh	Th	H	T	O
3	3	2	6	6
+ 5	4	3	2	3
8	7	5	8	9



$$\begin{array}{r} \text{(g)} \quad \text{TTh Th H T O} \\ \quad \quad 2 \ 3 \ 8 \ 9 \ 1 \\ \quad \quad + 1 \ 5 \ 1 \ 0 \ 2 \\ \hline \quad \quad 3 \ 8 \ 9 \ 9 \ 3 \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \text{TTh Th H T O} \\ \quad \quad 4 \ 3 \ 0 \ 2 \ 1 \\ \quad \quad + 2 \ 3 \ 7 \ 1 \ 5 \\ \hline \quad \quad 6 \ 6 \ 7 \ 3 \ 6 \end{array}$$

$$\begin{array}{r} \text{(i)} \quad \text{TTh Th H T O} \\ \quad \quad 8 \ 5 \ 6 \ 1 \ 3 \\ \quad \quad + 1 \ 2 \ 0 \ 4 \ 5 \\ \hline \quad \quad 9 \ 7 \ 6 \ 5 \ 8 \end{array}$$

$$\begin{array}{r} \text{(j)} \quad \text{TTh Th H T O} \\ \quad \quad 3 \ 2 \ 4 \ 0 \ 3 \\ \quad \quad + 4 \ 5 \ 4 \ 0 \ 2 \\ \hline \quad \quad 7 \ 7 \ 8 \ 0 \ 5 \end{array}$$

$$\begin{array}{r} \text{(k)} \quad \text{TTh Th H T O} \\ \quad \quad 1 \ 5 \ 1 \ 0 \ 8 \\ \quad \quad + 2 \ 1 \ 7 \ 3 \ 1 \\ \hline \quad \quad 3 \ 6 \ 8 \ 3 \ 9 \end{array}$$

$$\begin{array}{r} \text{(l)} \quad \text{TTh Th H T O} \\ \quad \quad 4 \ 7 \ 5 \ 0 \ 6 \\ \quad \quad + 3 \ 2 \ 2 \ 9 \ 0 \\ \hline \quad \quad 7 \ 9 \ 7 \ 9 \ 6 \end{array}$$

$$\begin{array}{r} \text{2. (a)} \quad \text{TTh Th H T O} \\ \quad \quad 2 \ 1 \ 0 \ 2 \ 5 \\ \quad \quad 5 \ 2 \ 0 \ 1 \ 1 \\ \quad \quad + 1 \ 3 \ 4 \ 1 \ 0 \\ \hline \quad \quad 8 \ 6 \ 4 \ 4 \ 6 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \text{TTh Th H T O} \\ \quad \quad 1 \ 0 \ 1 \ 0 \ 2 \\ \quad \quad 2 \ 0 \ 2 \ 3 \ 2 \\ \quad \quad + 3 \ 0 \ 2 \ 4 \ 4 \\ \hline \quad \quad 6 \ 0 \ 5 \ 7 \ 8 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \text{TTh Th H T O} \\ \quad \quad 2 \ 4 \ 1 \ 1 \ 2 \\ \quad \quad 5 \ 3 \ 2 \ 3 \ 3 \\ \quad \quad + 1 \ 2 \ 5 \ 4 \ 4 \\ \hline \quad \quad 8 \ 9 \ 8 \ 8 \ 9 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \text{TTh Th H T O} \\ \quad \quad 3 \ 6 \ 5 \ 3 \ 1 \\ \quad \quad 3 \ 1 \ 2 \ 3 \ 4 \\ \quad \quad + 2 \ 1 \ 0 \ 0 \ 1 \\ \hline \quad \quad 8 \ 8 \ 7 \ 6 \ 6 \end{array}$$

$$\begin{array}{r} \text{(e)} \quad \text{TTh Th H T O} \\ \quad \quad 2 \ 1 \ 2 \ 3 \ 2 \\ \quad \quad 2 \ 3 \ 2 \ 1 \ 4 \\ \quad \quad + 1 \ 5 \ 2 \ 4 \ 3 \\ \hline \quad \quad 5 \ 9 \ 6 \ 8 \ 9 \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \text{TTh Th H T O} \\ \quad \quad 4 \ 0 \ 0 \ 0 \ 0 \\ \quad \quad 3 \ 0 \ 0 \ 0 \ 3 \\ \quad \quad + 1 \ 5 \ 6 \ 7 \ 1 \\ \hline \quad \quad 8 \ 5 \ 6 \ 7 \ 4 \end{array}$$

$$\begin{array}{r} \text{(g)} \quad \text{TTh Th H T O} \\ \quad \quad 2 \ 0 \ 1 \ 3 \ 2 \\ \quad \quad 3 \ 0 \ 3 \ 4 \ 1 \\ \quad \quad + 3 \ 7 \ 3 \ 1 \ 2 \\ \hline \quad \quad 8 \ 7 \ 7 \ 8 \ 5 \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \text{TTh Th H T O} \\ \quad \quad 2 \ 1 \ 3 \ 4 \ 6 \\ \quad \quad 1 \ 2 \ 0 \ 1 \ 2 \\ \quad \quad + 5 \ 4 \ 5 \ 3 \ 1 \\ \hline \quad \quad 8 \ 7 \ 8 \ 8 \ 9 \end{array}$$

$$\begin{array}{r} \text{3. (a)} \quad \text{TTh Th H T O} \\ \quad \quad 3 \ 0 \ 8 \ 4 \ 2 \\ \quad \quad + 2 \ 7 \ 1 \ 0 \ 0 \\ \hline \quad \quad 5 \ 7 \ 9 \ 4 \ 2 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \text{TTh Th H T O} \\ \quad \quad 4 \ 0 \ 8 \ 4 \ 2 \\ \quad \quad + 1 \ 5 \ 1 \ 3 \ 5 \\ \hline \quad \quad 5 \ 5 \ 9 \ 7 \ 7 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \text{TTh Th H T O} \\ \quad \quad 1 \ 0 \ 2 \ 0 \\ \quad \quad 1 \ 1 \ 2 \ 2 \ 2 \\ \quad \quad + 3 \ 0 \ 3 \ 0 \ 6 \\ \hline \quad \quad 4 \ 2 \ 5 \ 4 \ 8 \end{array}$$

Practice Coach - 2!

$$\begin{array}{r} \text{1. (a)} \quad \text{TTh Th H T O} \\ \quad \quad 2 \ 6 \ 5 \ 5 \ 6 \\ \quad \quad + 6 \ 2 \ 1 \ 5 \ 4 \\ \hline \quad \quad 8 \ 8 \ 7 \ 1 \ 0 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \text{TTh Th H T O} \\ \quad \quad 5 \ 4 \ 9 \ 8 \ 7 \\ \quad \quad + 1 \ 5 \ 7 \ 1 \ 3 \\ \hline \quad \quad 7 \ 0 \ 7 \ 0 \ 0 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \text{TTh Th H T O} \\ \quad \quad 7 \ 5 \ 4 \ 8 \ 3 \\ \quad \quad + 3 \ 5 \ 5 \ 7 \ 3 \\ \hline \quad \quad 1 \ 1 \ 1 \ 0 \ 5 \ 6 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \text{TTh Th H T O} \\ \quad \quad 8 \ 3 \ 5 \ 5 \ 4 \\ \quad \quad + 7 \ 6 \ 4 \ 7 \\ \hline \quad \quad 9 \ 1 \ 2 \ 0 \ 1 \end{array}$$

$$\begin{array}{r} \text{(e)} \quad \text{TTh Th H T O} \\ \quad \quad 2 \ 6 \ 7 \ 8 \ 6 \\ \quad \quad + 4 \ 8 \ 2 \ 8 \ 7 \\ \hline \quad \quad 7 \ 5 \ 0 \ 7 \ 3 \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \text{TTh Th H T O} \\ \quad \quad 7 \ 4 \ 5 \ 4 \ 3 \\ \quad \quad + 8 \ 4 \ 5 \ 6 \ 4 \\ \hline \quad \quad 1 \ 5 \ 9 \ 1 \ 0 \ 7 \end{array}$$

$$\begin{array}{r} \text{(g)} \quad \text{TTh Th H T O} \\ \quad \quad 2 \ 8 \ 9 \ 6 \ 5 \\ \quad \quad + 6 \ 3 \ 4 \ 2 \ 7 \\ \hline \quad \quad 9 \ 2 \ 3 \ 9 \ 2 \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \text{TTh Th H T O} \\ \quad \quad 4 \ 7 \ 8 \ 3 \ 0 \\ \quad \quad + 1 \ 8 \ 9 \ 6 \ 5 \\ \hline \quad \quad 6 \ 6 \ 7 \ 9 \ 5 \end{array}$$

$$\begin{array}{r} \text{(i)} \quad \text{TTh Th H T O} \\ \quad \quad 4 \ 7 \ 0 \ 7 \ 2 \\ \quad \quad + 4 \ 6 \ 5 \ 4 \ 8 \\ \hline \quad \quad 9 \ 3 \ 6 \ 2 \ 0 \end{array}$$



$$\begin{array}{r}
 \text{(j)} \quad \text{TTh Th H T O} \\
 3 \ 6 \ 4 \ 2 \ 9 \\
 + 5 \ 6 \ 3 \ 2 \\
 \hline
 4 \ 2 \ 0 \ 6 \ 1
 \end{array}$$

$$\begin{array}{r}
 \text{(k)} \quad \text{TTh Th H T O} \\
 7 \ 3 \ 6 \ 4 \ 8 \\
 + 8 \ 0 \ 2 \ 0 \ 7 \\
 \hline
 1 \ 5 \ 3 \ 8 \ 5 \ 5
 \end{array}$$

$$\begin{array}{r}
 \text{(l)} \quad \text{TTh Th H T O} \\
 3 \ 4 \ 5 \ 6 \ 5 \\
 + 3 \ 8 \ 0 \ 2 \ 3 \\
 \hline
 7 \ 2 \ 5 \ 8 \ 8
 \end{array}$$

$$\begin{array}{r}
 \text{2. (a)} \quad \text{TTh Th H T O} \\
 3 \ 2 \ 5 \ 7 \ 6 \\
 1 \ 3 \ 8 \ 9 \ 7 \\
 + 4 \ 2 \ 3 \ 0 \ 0 \\
 \hline
 8 \ 8 \ 7 \ 7 \ 3
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad \text{TTh Th H T O} \\
 5 \ 1 \ 3 \ 3 \ 1 \\
 2 \ 3 \ 4 \ 9 \ 1 \\
 + 1 \ 0 \ 9 \ 0 \ 0 \\
 \hline
 8 \ 5 \ 7 \ 2 \ 2
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad \text{TTh Th H T O} \\
 8 \ 0 \ 6 \ 0 \ 7 \\
 5 \ 7 \ 3 \ 7 \ 1 \\
 + 2 \ 4 \ 6 \ 3 \ 2 \\
 \hline
 1 \ 6 \ 2 \ 6 \ 1 \ 0
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \text{TTh Th H T O} \\
 3 \ 3 \ 5 \ 7 \ 0 \\
 9 \ 9 \ 3 \ 8 \ 1 \\
 + 4 \ 6 \ 3 \ 3 \ 5 \\
 \hline
 1 \ 7 \ 9 \ 2 \ 8 \ 6
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \text{TTh Th H T O} \\
 5 \ 3 \ 1 \ 8 \ 0 \\
 3 \ 5 \ 2 \ 9 \ 4 \\
 + 4 \ 5 \ 3 \ 9 \ 2 \\
 \hline
 1 \ 3 \ 3 \ 8 \ 6 \ 6
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \text{TTh Th H T O} \\
 6 \ 9 \ 0 \ 1 \ 2 \\
 3 \ 4 \ 1 \ 6 \ 1 \\
 + 3 \ 0 \ 4 \ 2 \\
 \hline
 1 \ 0 \ 6 \ 2 \ 1 \ 5
 \end{array}$$

$$\begin{array}{r}
 \text{(g)} \quad \text{TTh Th H T O} \\
 4 \ 7 \ 2 \ 1 \ 0 \\
 1 \ 0 \ 5 \ 4 \ 6 \\
 + 1 \ 2 \ 4 \ 1 \\
 \hline
 5 \ 8 \ 9 \ 9 \ 7
 \end{array}$$

$$\begin{array}{r}
 \text{(h)} \quad \text{TTh Th H T O} \\
 4 \ 6 \ 4 \ 5 \\
 5 \ 4 \ 3 \ 8 \ 0 \\
 + 2 \ 5 \ 8 \ 5 \ 9 \\
 \hline
 8 \ 4 \ 8 \ 8 \ 4
 \end{array}$$

Practice Coach - 3 !

- Shyam bought a study table = ₹ 12,530
 He bought a bookshelf = ₹ 23,450
 Total money spent by him = ₹ 12,530 + ₹ 23,450
 = ₹ 35,980

$$\begin{array}{r}
 \text{TTh Th H T O} \\
 1 \ 2 \ 5 \ 3 \ 0 \\
 + 2 \ 3 \ 4 \ 5 \ 0 \\
 \hline
 3 \ 5 \ 9 \ 8 \ 0
 \end{array}$$

Thus, Shyam ₹ 35,980 spent in buying the two items.

- In a school there are students in 2001 = 11,230
 The students in 2002 = 21,200
 The students in 2003 = 31,012

$$\begin{array}{r}
 \text{TTh Th H T O} \\
 1 \ 1 \ 2 \ 3 \ 0 \\
 2 \ 1 \ 2 \ 0 \ 0 \\
 + 3 \ 1 \ 0 \ 1 \ 2 \\
 \hline
 6 \ 3 \ 4 \ 4 \ 2
 \end{array}$$

Total number of students in the three years = 11,230 + 21,200

$$+ 31,012 = 63,442$$

Thus, there are the total number of students is 63,442 who have enrolled for the school in the three years.

- A LED TV set cost = ₹ 96,823
 A digital camera cost = ₹ 80,786

The total cost of both the items = ₹ 96,823 + ₹ 80,786
 = ₹ 1,77,609

$$\begin{array}{r}
 \text{TTh Th H T O} \\
 9 \ 6 \ 8 \ 2 \ 3 \\
 + 8 \ 0 \ 7 \ 8 \ 6 \\
 \hline
 1 \ 7 \ 7 \ 6 \ 0 \ 9
 \end{array}$$

Thus, the total cost of both the items is ₹ 1,77,609.



4. The sum of 64,869 and 75,899

$$\begin{aligned} &= 64869+75899 \\ &= 140768 \end{aligned}$$

TTh	Th	H	T	O	
6	4	8	6	0	
+	7	5	8	9	
<hr/>					
1	7	0	7	6	8

5. The people watched a cricket match on first day

$$= 43599$$

The people watched a cricket match on second day = 7499

The people watched a cricket match on third day

$$= 10789$$

The people watched the match in

all three days = 43599+7499+10789

$$= 61887$$

TTh	Th	H	T	O	
4	3	5	9	9	
	7	4	9	9	
+	1	0	7	8	9
<hr/>					
6	1	8	8	7	

Thus, 61887 people watched the match in all three days.

6. The largest four digit number = 9999

The largest five digit number = 99999

The sum of both digit numbers = 9999+99999

$$= 109998$$

TTh	Th	H	T	O	
	9	9	9	9	
+	9	9	9	9	
<hr/>					
1	0	9	9	9	9

7. The greatest five digit number = 99999

A number is 26893 more than the 99999.

So, the number 126892 is 26893 more than the greatest five digit number.

TTh	Th	H	T	O	
9	9	9	9	9	
+	2	6	8	9	3
<hr/>					
1	2	6	8	9	2

8. A factory produced blue pens = 45689

The factory produced red pens = 36505

The factory produced pens in all

$$= 45689+36505$$

$$= 82194$$

TTh	Th	H	T	O	
4	5	6	8	9	
+	3	6	5	0	5
<hr/>					
8	2	1	9	4	

Thus, the factory produced 82194 pen in all.

9. The number of tourist in January = 35685

The number of tourist in February = 19690

The number of tourist in March = 48342

The total number of tourists in three months

$$= 35685 + 19690 + 48342 = 103717$$

TTh	Th	H	T	O	
3	5	6	8	5	
	1	9	6	9	0
+	4	8	3	4	2
<hr/>					
1	0	3	7	1	7

Thus, the number of tourists who visited

Agra in three months is 103717.

10. The first contestant got votes = 45856

The second contestant got votes = 11088

The third contestant got votes = 25896

The total number of votes polled = 45856+11088+25896 = 82840

The total number of votes polled is 82840.

TTh	Th	H	T	O	
4	5	8	5	6	
	1	1	0	8	8
+	2	5	8	9	6
<hr/>					
8	2	8	4	0	



Practice Coach - 4 !

1. (a) 89786 (b) 1080 (c) 0 (d) 23941 (e) 56354,37568 (f) 40404,20020
 (g) 78346 (h) 1 (i) 45685 (j) 19005 (k) 1 (l) 32554 (m)
 55611,19683,30481 (n) 45659 (o) 19679 (p) 36999

Practice Coach - 5 !

1. (a)

Actual Sum				
TTh	Th	H	T	O
1	0	2	3	5
+3	1	5	5	5
4	1	7	9	0

Estimate Sum				
TTh	Th	H	T	O
1	0	2	4	0
+3	1	5	6	0
4	1	8	0	0

So, Actual Sum
= 41790
and Estimate
Sum = 41800
- (b)

Actual Sum				
TTh	Th	H	T	O
2	0	5	8	3
+1	3	7	8	1
3	4	3	6	4

Estimate Sum				
TTh	Th	H	T	O
2	0	5	8	0
+1	3	7	8	0
3	4	3	6	0

So, Actual Sum
= 34364
and Estimate
Sum = 34360
- (c)

Actual Sum				
TTh	Th	H	T	O
3	2	3	5	6
5	6	4	3	1
+1	0	0	1	5
9	8	8	0	2

Estimate Sum				
TTh	Th	H	T	O
3	2	3	6	0
5	6	4	3	0
+1	0	0	2	0
9	8	8	1	0

So, Actual Sum
= 98802
and Estimate
Sum = 98810
2. (a)

Actual Sum				
TTh	Th	H	T	O
2	6	4	5	7
+1	9	7	8	6
4	6	2	4	3

Estimate Sum				
TTh	Th	H	T	O
2	6	5	0	0
+1	9	8	0	0
4	6	3	0	0

So, Actual Sum
= 46243
And Estimate
Sum = 46300
- (b)

TTh	Th	H	T	O
1	0	5	3	1
+7	4	8	1	3
8	5	3	4	4

TTh	Th	H	T	O
1	0	5	0	0
+7	4	8	0	0
8	5	3	0	0

So, Actual Sum
= 85344
And Estimate
Sum = 85300
- (c)

TTh	Th	H	T	O
2	2	0	1	5
2	2	2	6	3
+1	0	0	1	0
5	4	2	8	8

TTh	Th	H	T	O
2	2	0	0	0
2	2	3	0	0
+1	0	0	0	0
5	4	3	0	0

So, Actual Sum
= 54288
and Estimate
Sum = 54300



3. (a)

TTh	Th	H	T	O
3	2	4	2	5
+5	3	4	3	6
8	5	8	6	1

TTh	Th	H	T	O
3	2	0	0	0
+5	3	0	0	0
8	5	0	0	0

So, Actual Sum = 85861
And Estimate Sum = 85000
- (b)

TTh	Th	H	T	O
8	3	4	5	2
+7	6	3	4	7
1	5	9	7	9

TTh	Th	H	T	O
8	3	0	0	0
+7	6	0	0	0
1	5	9	0	0

So, Actual Sum = 159799
And Estimate Sum = 159000
- (c)

TTh	Th	H	T	O
2	1	0	0	8
3	4	1	2	1
+2	1	0	5	0
7	6	1	7	9

TTh	Th	H	T	O
2	1	0	0	0
3	4	0	0	0
+2	1	0	0	0
7	6	0	0	0

So, Actual Sum = 76179
and Estimate Sum = 76000

4. A company produces footballs in a month = 51830
The company produces basketballs in a month = 23469
The total actual number of balls produced = 51830+23469 = 75299
The total estimate number of balls produced by rounding off to nearest hundreds = 51800+23500 = 75300

Actual Sum	Estimate Sum																																								
<table style="border-collapse: collapse; width: 100%;"> <tr><td>TTh</td><td>Th</td><td>H</td><td>T</td><td>O</td></tr> <tr><td>5</td><td>1</td><td>8</td><td>3</td><td>0</td></tr> <tr><td>+2</td><td>3</td><td>4</td><td>6</td><td>9</td></tr> <tr style="border: 1px solid black;"><td>7</td><td>5</td><td>2</td><td>9</td><td>9</td></tr> </table>	TTh	Th	H	T	O	5	1	8	3	0	+2	3	4	6	9	7	5	2	9	9	<table style="border-collapse: collapse; width: 100%;"> <tr><td>TTh</td><td>Th</td><td>H</td><td>T</td><td>O</td></tr> <tr><td>5</td><td>1</td><td>8</td><td>0</td><td>0</td></tr> <tr><td>+2</td><td>3</td><td>5</td><td>0</td><td>0</td></tr> <tr style="border: 1px solid black;"><td>7</td><td>5</td><td>3</td><td>0</td><td>0</td></tr> </table>	TTh	Th	H	T	O	5	1	8	0	0	+2	3	5	0	0	7	5	3	0	0
TTh	Th	H	T	O																																					
5	1	8	3	0																																					
+2	3	4	6	9																																					
7	5	2	9	9																																					
TTh	Th	H	T	O																																					
5	1	8	0	0																																					
+2	3	5	0	0																																					
7	5	3	0	0																																					

The total number of balls produced by rounding off to nearest hundreds is 75300.

5. A kitchen garden has vegetables = 24590
The kitchen garden has fruits = 10438
The total actual number of fruits and vegetables = 24590+10438 = 35028
The total actual number of fruits and vegetables by rounding off to nearest thousands is 36000.



Actual Sum

$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 2 \quad 4 \quad 5 \quad 9 \quad 0 \\
 + 1 \quad 0 \quad 4 \quad 3 \quad 8 \\
 \hline
 3 \quad 5 \quad 0 \quad 2 \quad 8
 \end{array}$$

Estimate Sum

$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 2 \quad 6 \quad 0 \quad 0 \quad 0 \\
 + 1 \quad 0 \quad 0 \quad 0 \quad 0 \\
 \hline
 3 \quad 6 \quad 0 \quad 0 \quad 0
 \end{array}$$

Practice Coach - 6 !

1. (a)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 5 \quad 3 \quad 2 \quad 3 \quad 5 \\
 - 4 \quad 2 \quad 2 \quad 3 \quad 3 \\
 \hline
 1 \quad 1 \quad 0 \quad 0 \quad 2
 \end{array}$$

(b)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 5 \quad 4 \quad 8 \quad 9 \quad 6 \\
 - 5 \quad 2 \quad 3 \quad 1 \quad 5 \\
 \hline
 0 \quad 2 \quad 5 \quad 8 \quad 1
 \end{array}$$

(c)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 9 \quad 7 \quad 5 \quad 8 \quad 4 \\
 - 9 \quad 5 \quad 2 \quad 4 \quad 3 \\
 \hline
 2 \quad 3 \quad 4 \quad 1
 \end{array}$$

(d)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 8 \quad 3 \quad 6 \quad 7 \quad 9 \\
 - 4 \quad 0 \quad 3 \quad 6 \quad 5 \\
 \hline
 4 \quad 3 \quad 3 \quad 1 \quad 4
 \end{array}$$

(e)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 1 \quad 9 \quad 7 \quad 9 \quad 8 \\
 - 6 \quad 3 \quad 7 \quad 5 \\
 \hline
 1 \quad 3 \quad 4 \quad 2 \quad 3
 \end{array}$$

(f)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 4 \quad 8 \quad 9 \quad 6 \quad 7 \\
 - 2 \quad 3 \quad 6 \quad 3 \quad 5 \\
 \hline
 2 \quad 5 \quad 3 \quad 3 \quad 2
 \end{array}$$

(g)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 2 \quad 8 \quad 5 \quad 9 \quad 6 \\
 - 6 \quad 5 \quad 4 \quad 3 \\
 \hline
 2 \quad 2 \quad 0 \quad 5 \quad 3
 \end{array}$$

(h)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 9 \quad 0 \quad 6 \quad 9 \quad 5 \\
 - 6 \quad 0 \quad 4 \quad 7 \quad 3 \\
 \hline
 3 \quad 0 \quad 2 \quad 2 \quad 2
 \end{array}$$

(i)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 6 \quad 8 \quad 9 \quad 2 \quad 4 \\
 - 3 \quad 4 \quad 5 \quad 0 \quad 3 \\
 \hline
 3 \quad 4 \quad 4 \quad 2 \quad 1
 \end{array}$$

(j)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 6 \quad 9 \quad 4 \quad 8 \quad 1 \\
 - 3 \quad 4 \quad 4 \quad 3 \quad 1 \\
 \hline
 3 \quad 5 \quad 0 \quad 5 \quad 0
 \end{array}$$

(k)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 6 \quad 7 \quad 8 \quad 9 \quad 0 \\
 - 5 \quad 4 \quad 3 \quad 2 \quad 0 \\
 \hline
 1 \quad 3 \quad 5 \quad 7 \quad 0
 \end{array}$$

(l)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 7 \quad 6 \quad 5 \quad 9 \quad 6 \\
 - 2 \quad 3 \quad 0 \quad 7 \quad 3 \\
 \hline
 5 \quad 3 \quad 5 \quad 2 \quad 3
 \end{array}$$

2. (a)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 8 \quad 5 \quad 8 \quad 6 \quad 9 \\
 - 5 \quad 2 \quad 6 \quad 4 \quad 7 \\
 \hline
 3 \quad 3 \quad 2 \quad 2 \quad 2
 \end{array}$$

(b)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 9 \quad 3 \quad 7 \quad 1 \quad 6 \\
 - 5 \quad 2 \quad 6 \quad 4 \quad 7 \\
 \hline
 4 \quad 1 \quad 0 \quad 6 \quad 9
 \end{array}$$

(c)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 7 \quad 3 \quad 5 \quad 8 \quad 9 \\
 - 2 \quad 1 \quad 4 \quad 5 \quad 4 \\
 \hline
 5 \quad 2 \quad 1 \quad 3 \quad 5
 \end{array}$$

(d)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 8 \quad 0 \quad 9 \quad 7 \quad 8 \\
 - 4 \quad 0 \quad 3 \quad 1 \quad 5 \\
 \hline
 4 \quad 0 \quad 6 \quad 6 \quad 3
 \end{array}$$

(e)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 5 \quad 3 \quad 4 \quad 8 \quad 9 \\
 - 2 \quad 3 \quad 2 \quad 4 \quad 5 \\
 \hline
 3 \quad 0 \quad 2 \quad 4 \quad 4
 \end{array}$$

(f)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 7 \quad 3 \quad 0 \quad 0 \quad 1 \\
 - 2 \quad 3 \quad 0 \quad 0 \quad 1 \\
 \hline
 5 \quad 0 \quad 0 \quad 0 \quad 0
 \end{array}$$

3. (a)
$$\begin{array}{r}
 \text{TTh} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 4 \quad 0 \quad 2 \quad 0 \quad 0 \\
 - 2 \quad 0 \quad 1 \quad 0 \quad 0 \\
 \hline
 2 \quad 0 \quad 1 \quad 0 \quad 0
 \end{array}$$

Subtract twenty thousand one hundred from forty thousand two hundred, then answer is twenty thousand one hundred.



$$\begin{array}{r}
 \text{(b) TTh Th H T O} \\
 9\ 6\ 4\ 6\ 8 \\
 -5\ 4\ 2\ 3\ 6 \\
 \hline
 4\ 2\ 2\ 3\ 2
 \end{array}$$

Subtract fifty-four thousand two hundred thirty six from ninety-six thousand four hundred sixty-eight, then answer is forty-two thousand two hundred thirty-two.

$$\begin{array}{r}
 \text{(c) TTh Th H T O} \\
 7\ 9\ 9\ 4\ 2 \\
 -6\ 5\ 3\ 0\ 0 \\
 \hline
 1\ 4\ 6\ 4\ 2
 \end{array}$$

Subtract sixty-five thousand three hundred from seventy-nine thousand nine hundred forty-two, then answer is fourteen thousand six hundred forty-two.

Practice Coach - 7!

$$\begin{array}{r}
 \text{1. (a) TTh Th H T O} \\
 9\ 2\ 0\ 4\ 5 \\
 -3\ 6\ 1\ 9\ 6 \\
 \hline
 5\ 5\ 8\ 4\ 9
 \end{array}$$

$$\begin{array}{r}
 \text{(b) TTh Th H T O} \\
 1\ 3\ 4\ 5\ 6 \\
 -1\ 2\ 7\ 8\ 6 \\
 \hline
 0\ 0\ 6\ 7\ 0
 \end{array}$$

$$\begin{array}{r}
 \text{(c) TTh Th H T O} \\
 4\ 0\ 3\ 6\ 0 \\
 -\quad\quad 9\ 8\ 6 \\
 \hline
 3\ 9\ 3\ 7\ 4
 \end{array}$$

$$\begin{array}{r}
 \text{(d) TTh Th H T O} \\
 5\ 4\ 3\ 2\ 0 \\
 -5\ 3\ 9\ 4\ 0 \\
 \hline
 0\ 0\ 3\ 8\ 0
 \end{array}$$

$$\begin{array}{r}
 \text{(e) TTh Th H T O} \\
 7\ 0\ 0\ 0\ 0 \\
 -6\ 4\ 8\ 9\ 6 \\
 \hline
 0\ 5\ 1\ 0\ 4
 \end{array}$$

$$\begin{array}{r}
 \text{(f) TTh Th H T O} \\
 6\ 1\ 7\ 0\ 0 \\
 -\quad\quad 8\ 6\ 7\ 4 \\
 \hline
 5\ 3\ 0\ 2\ 6
 \end{array}$$

$$\begin{array}{r}
 \text{(g) TTh Th H T O} \\
 6\ 0\ 9\ 0\ 2 \\
 -2\ 3\ 6\ 9\ 8 \\
 \hline
 3\ 7\ 2\ 0\ 4
 \end{array}$$

$$\begin{array}{r}
 \text{(h) TTh Th H T O} \\
 5\ 4\ 0\ 0\ 0 \\
 -3\ 6\ 0\ 6\ 8 \\
 \hline
 1\ 7\ 9\ 3\ 2
 \end{array}$$

$$\begin{array}{r}
 \text{(i) TTh Th H T O} \\
 3\ 9\ 2\ 6\ 4 \\
 -2\ 5\ 6\ 8\ 9 \\
 \hline
 1\ 3\ 5\ 7\ 5
 \end{array}$$

$$\begin{array}{r}
 \text{(j) TTh Th H T O} \\
 8\ 4\ 0\ 5\ 7 \\
 -5\ 2\ 6\ 2\ 8 \\
 \hline
 3\ 1\ 4\ 2\ 9
 \end{array}$$

$$\begin{array}{r}
 \text{(k) TTh Th H T O} \\
 8\ 3\ 5\ 0\ 2 \\
 -7\ 6\ 9\ 4\ 6 \\
 \hline
 0\ 6\ 5\ 5\ 6
 \end{array}$$

$$\begin{array}{r}
 \text{(l) TTh Th H T O} \\
 4\ 5\ 3\ 6\ 8 \\
 -2\ 8\ 7\ 5\ 9 \\
 \hline
 1\ 6\ 6\ 0\ 9
 \end{array}$$

$$\begin{array}{r}
 \text{2. (a) TTh Th H T O} \\
 7\ 6\ 4\ 2\ 5 \\
 -3\ 4\ 3\ 6\ 7 \\
 \hline
 4\ 2\ 0\ 5\ 8
 \end{array}$$

$$\begin{array}{r}
 \text{(b) TTh Th H T O} \\
 8\ 3\ 9\ 7\ 1 \\
 -4\ 6\ 8\ 9\ 7 \\
 \hline
 3\ 7\ 0\ 7\ 4
 \end{array}$$

$$\begin{array}{r}
 \text{(c) TTh Th H T O} \\
 1\ 5\ 0\ 4\ 8 \\
 -1\ 4\ 6\ 9\ 3 \\
 \hline
 0\ 0\ 3\ 5\ 5
 \end{array}$$

$$\begin{array}{r}
 \text{(d) TTh Th H T O} \\
 3\ 0\ 0\ 7\ 5 \\
 -2\ 4\ 5\ 3\ 8 \\
 \hline
 0\ 5\ 5\ 3\ 7
 \end{array}$$

$$\begin{array}{r}
 \text{(e) TTh Th H T O} \\
 5\ 4\ 3\ 2\ 5 \\
 -2\ 9\ 8\ 6\ 3 \\
 \hline
 2\ 4\ 4\ 6\ 2
 \end{array}$$

$$\begin{array}{r}
 \text{(f) TTh Th H T O} \\
 8\ 7\ 6\ 3\ 5 \\
 -5\ 0\ 8\ 9\ 6 \\
 \hline
 3\ 6\ 7\ 3\ 9
 \end{array}$$



Practice Coach - 8!

1. (a)

TTh	Th	H	T	O
7	3	2	6	2
-	4	1	0	5
3	2	2	1	3

TTh	Th	H	T	O
3	2	2	1	3
+4	1	0	5	5
7	3	2	6	8

(b)

TTh	Th	H	T	O
1	4	2	4	5
-	2	1	2	3
1	2	1	2	2

TTh	Th	H	T	O
1	2	1	2	2
+	2	1	2	3
1	4	2	4	5

(c)

TTh	Th	H	T	O
9	9	5	3	2
-	5	4	3	8
4	5	1	5	0

TTh	Th	H	T	O
4	5	1	5	0
-	5	4	3	8
9	9	5	3	2

(d)

TTh	Th	H	T	O
8	6	3	5	0
-	2	5	1	3
8	3	8	3	7

TTh	Th	H	T	O
8	3	8	3	7
+	2	5	1	3
8	6	3	5	0

2. (a)

TTh	Th	H	T	O
4	8	3	5	7
-	3	2	4	3
1	5	9	1	9

(b)

TTh	Th	H	T	O
9	9	5	4	9
-	1	8	2	3
8	1	3	1	9

(c)

TTh	Th	H	T	O
7	4	4	6	9
-	5	7	5	3
1	6	9	3	5

(d)

TTh	Th	H	T	O
6	2	9	8	7
-	4	5	2	5
1	7	7	3	5

(e)

TTh	Th	H	T	O
9	1	9	9	0
-	5	6	4	6
3	5	5	2	7

(f)

TTh	Th	H	T	O
4	8	8	6	9
-	2	4	3	1
2	4	5	5	7



Practice Coach - 8 !

1. Total trees in a forest = 27,899

The trees fell down = 17,340

The trees were left in the forest

$$= 27,899 - 17,340 = 10,559$$

Thus, there were 10,559 trees left in the forest.

TTh	Th	H	T	O
2	7	8	9	9
-1	7	3	4	0
1	0	5	5	9

2. The population of a town = 95,368

The number of females = 39,651

The number of males = 95,368 - 39,651 = 55,717

Thus, the number of males in a town is 55,717.

TTh	Th	H	T	O
9	5	3	6	8
-3	9	6	5	1
5	5	7	1	7

3. A bookseller had books = 19,455

She sold books in one month = 13,656

The books were in her shop now = 19,455 - 13,656

$$= 5,799$$

Thus, 5,799 books were in her shop now.

TTh	Th	H	T	O
1	9	4	5	5
-1	3	6	5	6
0	5	7	9	9

4. A man had money = ₹ 70,000

He gave money to his son = ₹ 43,650

Money is left with him = ₹ 70,000 - ₹ 43,650

$$= ₹ 26,350$$

Thus, ₹ 26,350 is left with him.

TTh	Th	H	T	O
7	0	0	0	0
-4	3	6	5	0
2	6	3	5	0

5. The sum of two numbers = 56,856

If one number = 2892

Then the other number = 56,856 - 28,692 = 28,164.

TTh	Th	H	T	O
5	6	8	5	6
-2	8	6	9	2
2	8	1	6	4

6. The smallest 5-digit number = 10,000

The largest 4-digit number = 9,999

Then the answer = 10,000 - 9,999 = 1

TTh	Th	H	T	O
1	0	0	0	0
-	9	9	9	9
0	0	0	0	1

7. The apartments in a township = 65,200

The apartments are already occupied = 21,890

The apartments are still vacant = 65,200 - 21,890

$$= 43,310$$

Thus, 43,310 apartments are still vacant.

TTh	Th	H	T	O
6	5	2	0	0
-2	1	8	9	0
4	3	3	1	0

8. TTh Th H T O

5 3 6 5 8

-2 6 7 8 9

2	6	8	6	9
---	---	---	---	---

Thus, we must add 26,869 to 26,789 to get 53,658.



9. The first number = 20,768
 The second number = 29,300
 The greater number = $29,300 - 20,768 = 8,532$
 Thus, 29,300 is greater by 8,532.

TTh	Th	H	T	O
	2	9	3	0
	-2	0	7	6
	8	2	3	2

10. The total length of a wire = 8,795m
 The length of one piece = 5,986m
 The length of other piece = $8,795\text{m} - 5,986\text{m} = 2,809\text{m}$
 Thus, the length of other piece of wire is 2,809m.

Practice Coach - 10 !

1. (a) 46389 (b) 0 (c) 73999 (d) 0 (e) 1 (f) 34053 (g) 19684 (h) 36895 (i) 49980 (j) 30450

Practice Coach - 11 !

1. (a) Actual Difference Estimated Difference

Th	H	T	O
3	3	1	9
-1	2	8	7
2	0	3	2

Th	H	T	O
3	3	2	0
-1	2	9	0
2	0	3	0

Actual difference
= 2032
Estimated difference
= 2030

- (b) Actual Difference Estimated Difference

Th	H	T	O
6	0	9	1
-5	1	6	7
0	9	2	4

Th	H	T	O
6	0	9	0
-5	1	7	0
0	9	2	0

Actual difference
= 924
Estimated difference
= 920

- (c) Actual Difference Estimated Difference

TTh	Th	H	T	O
5	0	4	9	1
-4	1	0	0	7
0	9	4	8	4

TTh	Th	H	T	O
5	0	4	9	0
-4	1	0	1	0
0	9	4	8	0

Actual difference
= 9484
Estimated difference
= 9480

2. (a) Actual Difference Estimated Difference

Th	H	T	O
6	9	8	7
-2	4	2	8
4	5	5	9

Th	H	T	O
7	0	0	0
-2	4	0	0
4	6	0	0

Actual difference
= 4559
Estimated difference
= 4600



(b) Actual Difference

TTh	Th	H	T	O
8	2	3	9	6
-5	3	4	0	2
2	8	9	9	4

Estimated Difference

TTh	Th	H	T	O
8	2	4	0	0
-5	3	4	0	0
2	9	0	0	0

Actual difference
= 28994

Estimated difference
= 29000

(c) Actual Difference

Th	H	T	O
9	6	1	5
-4	2	0	8
5	4	0	7

Estimated Difference

Th	H	T	O
9	6	0	0
-4	2	0	0
5	4	0	0

Actual difference
= 5407

Estimated difference
= 5400

3. (a) Actual Difference

Th	H	T	O
5	3	5	6
-2	9	1	4
2	4	4	2

Estimated Difference

Th	H	T	O
5	0	0	0
-3	0	0	0
2	0	0	0

Actual difference
= 2442

Estimated difference
= 2000

(b) Actual Difference

Th	H	T	O
5	4	8	0
-3	8	6	1
1	6	1	9

Estimated Difference

Th	H	T	O
5	0	0	0
-4	0	0	0
1	0	0	0

Actual difference
= 1619

Estimated difference
= 1000

(c) Actual Difference

Th	H	T	O
1	2	0	9
-1	0	8	0
1	2	9	

Estimated Difference

Th	H	T	O
1	0	0	0
-1	0	0	0
0	0	0	0

Actual difference
= 129

Estimated difference
= 0

4. A man bought food items = ₹ 89,860

He bought drinks = ₹ 56,440

The difference in both the expenses = ₹ 89,860 - ₹ 56,440 = ₹ 33,420

Actual Difference

TTh	Th	H	T	O
8	9	8	6	0
-5	6	4	4	0
3	3	4	2	0

Estimated Difference

TTh	Th	H	T	O
8	9	9	0	0
-5	6	4	0	0
3	3	5	0	0



Thus, the difference in both the expenses by rounding off to nearest hundreds is 33,500.

5. The total ribbons = 34,254

The blue ribbons = 13,245

Then the red ribbons = $34,254 - 13,245 = 21,009$

Actual Difference

TTh	Th	H	T	O
3	4	2	5	4
-1	3	2	4	5
2	1	0	0	9

Estimated Difference

TTh	Th	H	T	O
3	4	0	0	0
-1	3	0	0	0
2	1	0	0	0

Thus, the estimated number of red ribbons to the nearest thousands is 21,000.

Practice Coach - 12 !

1. (a) Add $13243 + 13423$

TTh	Th	H	T	O
1	3	2	4	3
+1	3	4	2	3
2	6	6	6	6

Add $26666 + 14235$

TTh	Th	H	T	O
2	6	6	6	6
+1	4	2	3	5
4	0	9	0	1

(b) Add $63534 + 32624$

TTh	Th	H	T	O
6	3	5	3	4
+3	2	6	2	4
9	6	1	5	8

Subtract $96158 - 43434$

TTh	Th	H	T	O
9	6	1	5	8
-4	3	4	3	4
5	2	7	2	4

(c) Add $42167 + 54150$

TTh	Th	H	T	O
4	2	1	6	7
+5	4	1	5	0
9	6	3	1	7

Subtract $96317 - 35901$

TTh	Th	H	T	O
9	6	3	1	7
-3	5	9	0	1
6	0	4	1	6

(d) Add $32136 + 15220$

TTh	Th	H	T	O
3	2	1	3	6
+1	5	2	2	0
4	7	3	5	6

Subtract $47356 - 21742$

TTh	Th	H	T	O
4	7	3	5	6
-2	1	7	4	2
2	5	6	1	4



(e) Add $12874+61742$

	TTh	Th	H	T	O
	1	2	8	7	4
+ 6	1	7	4	2	
	7	4	6	1	6

(f) Add $53578+31051$

	TTh	Th	H	T	O
	5	3	5	7	8
+ 3	1	0	5	1	
	8	4	6	2	9

Subtract $74616-40741$

	TTh	Th	H	T	O
	7	4	6	1	6
- 4	0	7	4	1	
	3	3	8	7	5

Subtract $84629-42536$

	TTh	Th	H	T	O
	8	4	6	2	9
- 4	2	5	3	6	
	4	2	0	9	3

2. A shopkeeper had rice in stock = 52370 kg

He sold rice in first day = 12155 kg

He sold rice in second day = 9328 kg

He sold rice in third day = 15271 kg

He sold rice in three days

$$= 12155 \text{ kg} + 9328 \text{ kg} + 15271 \text{ kg}$$

$$= 36754 \text{ kg}$$

	TTh	Th	H	T	O
	1	2	1	5	5
		9	3	2	8
+ 1	5	2	7	1	
	3	6	7	5	4

Rice left in the stock

$$= 52370 \text{ kg}$$

$$= 36754 \text{ kg}$$

$$= 15616 \text{ kg}$$

	TTh	Th	H	T	O
	5	2	3	7	0
- 3	6	7	5	4	
	1	5	6	1	6

Thus, 15616 kg rice still left in the stock.

3. Add 64512 and 23175

	TTh	Th	H	T	O
	6	4	5	1	2
- 2	3	1	7	5	
	8	7	6	8	7

Subtract 87687 from 90000

	TTh	Th	H	T	O
	9	0	0	0	0
- 8	7	6	8	7	
	0	2	3	1	3

Mental Maths

1. 34265 and 1986 2. 25613, 14208 3. $95608-4000 = 91608$ 4. $50000+50 = 50050$ 5. bigger 6. $99999-1000 = 98999$ 7. 89636 8. 99998 9. $8000-8 = 7992$ 10. $10000+35609 = 45609$

Multiple Choice Questions (MCQs) :

1. (a) 97789 2. (b) 99998 3. (a) sum 4. (b) 13125 5. (b) difference



Quick Recall!!

1. (a) 5 (b) 10 (c) $14+14+14+14+14+14+14+14 = 8 \times 14$

2. (a) $\begin{array}{r} 34 \\ \times 7 \\ \hline 238 \end{array}$	(b) $\begin{array}{r} 19 \\ \times 6 \\ \hline 114 \end{array}$	(c) $\begin{array}{r} 134 \\ \times 7 \\ \hline 938 \end{array}$	(d) $\begin{array}{r} 246 \\ \times 5 \\ \hline 1230 \end{array}$
--	---	--	---

4. A jar has marbles = 195

The number of jars = 20

The marbles are in 20 jars = 195×20
 $= 3900$

$$\begin{array}{r} 195 \\ \times 20 \\ \hline 000 \\ 3900 \\ \hline 3900 \end{array}$$

5. (a) $153 \times 10 = 1530$ (b) $14 \times 1000 = 14000$
 (c) $243 \times 100 = 24300$ (d) $9456 \times 1 = 9456$

Practice Coach - 1 !

1. (a) 35 (b) 1 (c) 0 (d) 5 (e) 0 (f) 1971 (g) 7842 (h) 1250 (i) 4175 (j) 25755 (k) $(96 \times 45) \times 3 = 45 \times (96 \times 3)$
2. (a) $142 \times 2 \Rightarrow$ (v) 2×142
 (b) $357 \times 1 \Rightarrow$ (iv) 357
 (c) $899 \times 0 \Rightarrow$ (ii) 0
 (d) Product of $112 \times 4 \Rightarrow$ (iii) is an even number
 (e) Product of $511 \times 5 \Rightarrow$ (i) is an odd number

Practice Coach - 2 !

1. (a) 1200 (b) 17,000 (c) 1,50,000 (d) 42,600 (e) 91,800 (f) 9,73,000 (g) 11,000 (h) 4,187,00 (i) 86,000 (j) 32,40,000 (k) 5100 (l) 63,000
2. (a) $11 \times 99 = 11 \times (100 - 1)$
 $= 1100 - 11$
 $= 1089$
- (b) $65 \times 99 = 65 \times (100 - 1)$
 $= 6500 - 65$
 $= 6435$
- (c) $94 \times 9 = 94 \times (10 - 1)$
 $= 940 - 94$
 $= 846$
- (d) $28 \times 99 = 28 \times (100 - 1)$
 $= 2800 - 28$
 $= 2772$
- (e) $25 \times 29 = 25 \times (30 - 1)$
 $= 750 - 25$
 $= 725$
- (f) $86 \times 49 = 86 \times (50 - 1)$
 $= 4300 - 86$
 $= 4214$

$$\begin{aligned} \text{(g)} \quad 28 \times 79 &= 28 \times (80 - 1) \\ &= 2240 - 28 \\ &= 2212 \end{aligned}$$

$$\begin{aligned} \text{(i)} \quad 70 \times 59 &= 70 \times (60 - 1) \\ &= 4200 - 70 \\ &= 4130 \end{aligned}$$

$$\begin{aligned} \text{(h)} \quad 52 \times 39 &= 52 \times (40 - 1) \\ &= 2080 - 52 \\ &= 2028 \end{aligned}$$

$$\begin{aligned} \text{(j)} \quad 65 \times 99 &= 65 \times (100 - 1) \\ &= 6500 - 65 \\ &= 6435 \end{aligned}$$

Practice Coach - 3 !

1. (a)

$$\begin{aligned} 1 \times 123 &= 123 \\ 2 \times 123 &= 246 \\ 3 \times 123 &= 369 \\ 4 \times 123 &= 492 \\ 5 \times 123 &= 615 \\ 6 \times 123 &= 738 \\ 7 \times 123 &= 861 \\ 8 \times 123 &= 984 \\ 9 \times 123 &= 1107 \\ 10 \times 123 &= 1230 \\ 11 \times 123 &= 1353 \end{aligned}$$

So, $123 \times 11 = 1353$

(b)

$$\begin{aligned} 1 \times 441 &= 441 \\ 2 \times 441 &= 882 \\ 3 \times 441 &= 1323 \\ 4 \times 441 &= 1764 \\ 5 \times 441 &= 2205 \\ 6 \times 441 &= 2646 \\ 7 \times 441 &= 3087 \\ 8 \times 441 &= 3528 \\ 9 \times 441 &= 3969 \\ 10 \times 441 &= 4410 \\ 11 \times 441 &= 4851 \\ 12 \times 441 &= 5292 \end{aligned}$$

So, $441 \times 12 = 5292$

(c)

$$\begin{aligned} 1 \times 326 &= 326 \\ 2 \times 326 &= 652 \\ 3 \times 326 &= 978 \\ 4 \times 326 &= 1304 \\ 5 \times 326 &= 1630 \\ 6 \times 326 &= 1956 \\ 7 \times 326 &= 2282 \\ 8 \times 326 &= 2608 \\ 9 \times 326 &= 2934 \\ 10 \times 326 &= 3260 \end{aligned}$$

So, $326 \times 20 = 6520$

$$\begin{aligned} 11 \times 326 &= 3586 \\ 12 \times 326 &= 3912 \\ 13 \times 326 &= 4238 \\ 14 \times 326 &= 4564 \\ 15 \times 326 &= 4890 \\ 16 \times 326 &= 5216 \\ 17 \times 326 &= 5542 \\ 18 \times 326 &= 5868 \\ 19 \times 326 &= 6194 \\ 20 \times 326 &= 6520 \end{aligned}$$

(d)

$$\begin{aligned} 1 \times 404 &= 404 \\ 2 \times 404 &= 808 \\ 3 \times 404 &= 1212 \\ 4 \times 404 &= 1616 \\ 5 \times 404 &= 2020 \\ 6 \times 404 &= 2424 \\ 7 \times 404 &= 2828 \\ 8 \times 404 &= 3232 \\ 9 \times 404 &= 3636 \end{aligned}$$

(e)

$$\begin{aligned} 1 \times 237 &= 237 \\ 2 \times 237 &= 474 \\ 3 \times 237 &= 711 \\ 4 \times 237 &= 948 \\ 5 \times 237 &= 1185 \\ 6 \times 237 &= 1422 \\ 7 \times 237 &= 1659 \\ 8 \times 237 &= 1996 \\ 9 \times 237 &= 2133 \end{aligned}$$

(f)

$$\begin{aligned} 1 \times 725 &= 725 \\ 2 \times 725 &= 1450 \\ 3 \times 725 &= 2175 \\ 4 \times 725 &= 2900 \\ 5 \times 725 &= 3625 \\ 6 \times 725 &= 4350 \\ 7 \times 725 &= 5075 \\ 8 \times 725 &= 5800 \\ 9 \times 725 &= 6525 \end{aligned}$$



$10 \times 404 = 4040$	$10 \times 237 = 2370$	$10 \times 725 = 7250$
$11 \times 404 = 4444$	$11 \times 237 = 2607$	$11 \times 725 = 7975$
$12 \times 404 = 4848$	$12 \times 237 = 2844$	$12 \times 725 = 8700$
$13 \times 404 = 5252$	$13 \times 237 = 3081$	$13 \times 725 = 9425$
$14 \times 404 = 5656$	$14 \times 237 = 3318$	$14 \times 725 = 10150$
$15 \times 404 = 6060$	$15 \times 237 = 3555$	$15 \times 725 = 10875$
So, $404 \times 15 = 6060$	$16 \times 237 = 3792$	$16 \times 725 = 11600$
	So, $237 \times 16 = 3792$	So, $25 \times 18 = 13050$
		$17 \times 725 = 12325$
		$18 \times 725 = 13050$

(g) $1 \times 762 = 62$	$11 \times 762 = 8382$
$2 \times 762 = 1524$	$12 \times 762 = 9144$
$3 \times 762 = 2286$	$13 \times 762 = 9906$
$4 \times 762 = 3048$	$14 \times 762 = 10668$
$5 \times 762 = 3810$	$15 \times 762 = 11430$
$6 \times 762 = 4572$	$16 \times 762 = 12192$
$7 \times 762 = 5334$	$17 \times 762 = 12954$
$8 \times 762 = 6096$	$18 \times 762 = 13716$
$9 \times 762 = 6858$	$19 \times 762 = 14478$
$10 \times 762 = 7620$	So, $762 \times 19 = 14478$

(h) $1 \times 346 = 346$	(i) $1 \times 564 = 564$	(j) $1 \times 234 = 234$
$2 \times 346 = 692$	$2 \times 564 = 1128$	$2 \times 234 = 468$
$3 \times 346 = 1038$	$3 \times 564 = 1692$	$3 \times 234 = 702$
$4 \times 346 = 1384$	$4 \times 564 = 2256$	$4 \times 234 = 936$
$5 \times 346 = 1730$	$5 \times 564 = 2820$	$5 \times 234 = 1170$
$6 \times 346 = 2076$	$6 \times 564 = 3384$	$6 \times 234 = 1404$
$7 \times 346 = 2422$	$7 \times 564 = 3948$	$7 \times 234 = 1638$
$8 \times 346 = 2768$	$8 \times 564 = 4512$	$8 \times 234 = 1872$
$9 \times 346 = 3114$	$9 \times 564 = 5076$	$9 \times 234 = 2106$
$10 \times 346 = 3460$	$10 \times 564 = 5640$	$10 \times 234 = 2340$
$11 \times 346 = 3806$	$11 \times 564 = 6204$	$11 \times 234 = 2574$
$12 \times 346 = 4152$	$12 \times 564 = 6768$	$12 \times 234 = 2808$
$13 \times 346 = 4498$	$13 \times 564 = 7332$	$13 \times 234 = 3042$
$14 \times 346 = 4844$	$14 \times 564 = 7896$	So, $234 \times 13 = 3042$
$15 \times 346 = 5190$	$15 \times 564 = 8460$	
$16 \times 346 = 5536$	$16 \times 564 = 9024$	
$17 \times 346 = 5882$	So, $564 \times 16 = 9024$	
So, $346 \times 17 = 5882$		



2. (a)

	20	4
5	100	20

$100+20 = 120$

Answer = $24 \times 5 = 120$

(b)

	30	6
6	180	36

$180+36 = 216$

Answer = $36 \times 6 = 216$

(c)

	40	2
7	280	14

$280+14 = 294$

Answer = $42 \times 7 = 294$

(d)

	70	8
8	560	64

$560+64 = 524$

Answer = $78 \times 8 = 624$

(e)

	60	5
3	180	15

$180+15 = 195$

Answer = $65 \times 3 = 195$

(f)

	20	4
10	200	40
2	40	8

$200+40+40+8 = 288$

Answer = $24 \times 12 = 288$

(g)

	30	2
10	300	20
8	240	16

$300+20+240+16 = 576$

Answer = $32 \times 18 = 576$

(h)

	50	4
20	1000	80
8	400	32

$1000+80+400+32 = 1512$

Answer = $54 \times 28 = 1512$

(i)

	40	8
70	2800	560
2	80	16

$2800+560+80+16 = 3456$

Answer = $48 \times 72 = 3456$

(j)

	60	6
80	4800	480
6	360	36

$4800+480+360+36 = 5676$

Answer = $66 \times 86 = 5676$

Practice Coach - 4 !

1. (a)

	2	3	4	
	\times	6	1	2
<hr/>				
	4	6	8	
	2	3	4	0
	$+$	14	0	4
			0	0
	14	3	2	0
			8	

(b)

	1	9	6	
	\times	5	7	2
<hr/>				
	3	9	2	
	1	3	7	2
	$+$	9	8	0
			0	0
	11	2	1	1
			2	

(c)

	8	9	4	
	\times	6	3	2
<hr/>				
	1	7	8	8
	2	6	8	2
	$+$	5	3	6
			4	0
	5	6	5	0
			0	8



$$\begin{array}{r}
 \text{(d)} \quad 2\ 5\ 3 \\
 \times 1\ 2\ 5 \\
 \hline
 1\ 2\ 6\ 5 \\
 5\ 0\ 6\ 0 \\
 + 2\ 5\ 3\ 0\ 0 \\
 \hline
 3\ 1\ 6\ 2\ 5
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad 2\ 2\ 3 \\
 \times 2\ 1\ 5 \\
 \hline
 1\ 1\ 1\ 5 \\
 2\ 2\ 3\ 0 \\
 + 4\ 4\ 6\ 0\ 0 \\
 \hline
 4\ 7\ 9\ 4\ 5
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad 1\ 1\ 2 \\
 \times 1\ 1\ 4 \\
 \hline
 4\ 4\ 8 \\
 1\ 1\ 2\ 0 \\
 + 1\ 1\ 2\ 0\ 0 \\
 \hline
 1\ 2\ 7\ 6\ 8
 \end{array}$$

$$\begin{array}{r}
 \text{(g)} \quad 2\ 6\ 6 \\
 \times 2\ 3\ 9 \\
 \hline
 2\ 3\ 9\ 4 \\
 7\ 9\ 8\ 0 \\
 + 5\ 3\ 2\ 0\ 0 \\
 \hline
 6\ 3\ 5\ 7\ 4
 \end{array}$$

$$\begin{array}{r}
 \text{(h)} \quad 3\ 5\ 6 \\
 \times 4\ 5\ 5 \\
 \hline
 1\ 7\ 8\ 0 \\
 1\ 7\ 8\ 0\ 0 \\
 + 1\ 4\ 2\ 4\ 0\ 0 \\
 \hline
 1\ 6\ 1\ 9\ 8\ 0
 \end{array}$$

$$\begin{array}{r}
 \text{2. (a)} \quad 3\ 7\ 2\ 8 \\
 \times 2 \\
 \hline
 7\ 4\ 5\ 6
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad 1\ 9\ 8\ 6 \\
 \times 3 \\
 \hline
 5\ 9\ 5\ 8
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad 4\ 8\ 9\ 0 \\
 \times 4 \\
 \hline
 19\ 5\ 6\ 0
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad 7\ 6\ 1\ 3 \\
 \times 5 \\
 \hline
 38\ 0\ 6\ 5
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad 5\ 6\ 4\ 5 \\
 \times 6 \\
 \hline
 3\ 3\ 8\ 7\ 0
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad 2\ 3\ 7\ 9 \\
 \times 7 \\
 \hline
 16\ 6\ 5\ 3
 \end{array}$$

$$\begin{array}{r}
 \text{(g)} \quad 1\ 0\ 0\ 8 \\
 \times 8 \\
 \hline
 8\ 0\ 6\ 4
 \end{array}$$

$$\begin{array}{r}
 \text{(h)} \quad 2\ 0\ 1\ 5 \\
 \times 9 \\
 \hline
 1\ 8\ 1\ 3\ 5
 \end{array}$$

$$\begin{array}{r}
 \text{3. (a)} \quad 3\ 2\ 5\ 4 \\
 \times 1\ 2 \\
 \hline
 6\ 5\ 0\ 8 \\
 + 3\ 2\ 5\ 4\ 0 \\
 \hline
 3\ 9\ 0\ 4\ 8
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad 1\ 0\ 8\ 4 \\
 \times 1\ 3 \\
 \hline
 3\ 2\ 5\ 2 \\
 + 1\ 0\ 8\ 4\ 0 \\
 \hline
 1\ 4\ 0\ 9\ 2
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad 7\ 5\ 3\ 6 \\
 \times 2\ 1 \\
 \hline
 7\ 5\ 3\ 6 \\
 + 1\ 5\ 0\ 7\ 2\ 0 \\
 \hline
 1\ 5\ 8\ 2\ 5\ 6
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad 9\ 8\ 6\ 4 \\
 \times 3\ 7 \\
 \hline
 6\ 9\ 0\ 4\ 8 \\
 + 2\ 9\ 5\ 9\ 2\ 0 \\
 \hline
 3\ 6\ 4\ 9\ 6\ 8
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad 8\ 6\ 2\ 4 \\
 \times 2\ 3 \\
 \hline
 2\ 5\ 8\ 7\ 2 \\
 + 1\ 7\ 2\ 4\ 8\ 0 \\
 \hline
 1\ 9\ 8\ 3\ 5\ 2
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad 3\ 4\ 8\ 2 \\
 \times 4\ 3 \\
 \hline
 1\ 0\ 4\ 4\ 6 \\
 + 1\ 3\ 9\ 2\ 8\ 0 \\
 \hline
 1\ 4\ 9\ 7\ 2\ 6
 \end{array}$$



$$\begin{array}{r}
 \text{(g)} \quad 5 \ 4 \ 0 \ 0 \\
 \quad \times 6 \ 7 \\
 \hline
 3 \ 7 \ 8 \ 0 \ 0 \\
 + 3 \ 2 \ 4 \ 0 \ 0 \ 0 \\
 \hline
 3 \ 6 \ 1 \ 8 \ 0 \ 0
 \end{array}$$

$$\begin{array}{r}
 \text{(h)} \quad 2 \ 3 \ 5 \ 6 \\
 \quad \times 5 \ 5 \\
 \hline
 1 \ 1 \ 7 \ 8 \ 0 \\
 + 1 \ 1 \ 7 \ 8 \ 0 \ 0 \\
 \hline
 1 \ 2 \ 9 \ 5 \ 8 \ 0
 \end{array}$$

Practice Coach - 5 !

1. Cost of a book = ₹ 125

Total number of books = 75

The cost of total books = ₹ 125×75
= ₹ 9375

Thus, the cost of 75 books are ₹ 9375.

2. Cost of a ticket = ₹ 15

Total number of tickets = 347

The cost of total tickets = ₹ 15×347
= ₹ 5205

Thus, ₹ 5205 was collected.

3. The ice cream parlour in a city = 278

Each ice cream parlour sold ice creams = 980

The ice creams sold in all = 278×980
= 272440

Thus, 272440 ice creams were sold in all ice cream parlours in a city.

4. A car travels in one week = 1350 km

The number of weeks = 4

The car travels in 4 weeks = $1350 \text{ km} \times 4$
= 5400 km

Thus, a car travels 5400 km in four weeks.

5. Cost of a tin of oil = ₹ 472

Total number of tins = 245

The cost of total tins = ₹ 472×245
= ₹ 115640

Thus, the cost of 245 oil tins is ₹ 115640.

$$\begin{array}{r}
 1 \ 2 \ 5 \\
 \times 7 \ 5 \\
 \hline
 6 \ 2 \ 5 \\
 + 8 \ 7 \ 5 \ 0 \\
 \hline
 9 \ 3 \ 7 \ 5
 \end{array}$$

$$\begin{array}{r}
 3 \ 4 \ 7 \\
 \times 1 \ 5 \\
 \hline
 1 \ 7 \ 3 \ 5 \\
 + 3 \ 4 \ 7 \ 0 \\
 \hline
 5 \ 2 \ 0 \ 5
 \end{array}$$

$$\begin{array}{r}
 2 \ 7 \ 8 \\
 \times 9 \ 8 \ 0 \\
 \hline
 0 \ 0 \ 0 \\
 2 \ 2 \ 2 \ 4 \ 0 \\
 + 2 \ 5 \ 0 \ 2 \ 0 \ 0 \\
 \hline
 2 \ 7 \ 2 \ 4 \ 4 \ 0
 \end{array}$$

$$\begin{array}{r}
 1 \ 3 \ 5 \ 0 \\
 \quad \times 4 \\
 \hline
 5 \ 4 \ 0 \ 0
 \end{array}$$

$$\begin{array}{r}
 4 \ 7 \ 2 \\
 \times 2 \ 4 \ 5 \\
 \hline
 2 \ 3 \ 6 \ 0 \\
 1 \ 8 \ 8 \ 8 \ 0 \\
 + 9 \ 4 \ 4 \ 0 \ 0 \\
 \hline
 1 \ 1 \ 5 \ 6 \ 4 \ 0
 \end{array}$$



6. A man earns money in a day = ₹ 3245

The number of days = 9

The man earns money in 9 days = ₹ 3245×9
= ₹ 29205

Thus, the man earns ₹ 29205 in 9 days.

$$\begin{array}{r} 3245 \\ \times 9 \end{array}$$

$$\boxed{29205}$$

7. Each coach has seats = 118

Total number of coaches = 36

Total seats has in all coaches = 118×36
= 4248

Thus, 4248 seats are there in 36 such coaches.

$$\begin{array}{r} 118 \\ \times 36 \\ \hline \end{array}$$

$$708$$

$$+ 3540$$

$$\boxed{4248}$$

8. The metre in a kilometre = 1000 m

The number of total kilometres = 234 km

The metres are in 234 kilometres = 234 km × 1000
= 234000 m

Thus, there are 234000 m in 234 km.

$$\begin{array}{r} 1000 \\ \times 234 \\ \hline \end{array}$$

$$4000$$

$$30000$$

$$200000$$

$$+ 200000$$

$$\boxed{234000}$$

9. The weight of a box containing notebooks = 314 kg

The total number of boxes = 163

The total weight of 163 boxes = 314 kg×163
= 51182 kg

Thus, the weight of 163 boxes is 51182 kg.

$$\begin{array}{r} 314 \\ \times 163 \\ \hline \end{array}$$

$$942$$

$$18840$$

$$18840$$

$$+ 31400$$

$$\boxed{51182}$$

10. A factory makes toys in a day = 692

Number of days in a leap year = 366

The factory produced toys in a leap year = 692×366
= 253272

Thus, this factory 253272 toys
produced in a leap year.

$$\begin{array}{r} 692 \\ \times 366 \\ \hline \end{array}$$

$$4152$$

$$41520$$

$$415200$$

$$+ 207600$$

$$\boxed{253272}$$

Practice Coach - 6 !

1. Rounding off to nearest 100

(a) 342×645

342 rounded off = 300

645 rounded off = 600

$$= 300 \times 600 = 1,80,000$$

Thus, the product 1,80,000 is an estimated product.



(b) 196×430

196 rounded off = 200

430 rounded off = 400

$= 400 \times 200 = 80,000$

Thus, the product $80,000$ is an estimated product.

(c) 168×230

168 rounded off = 200

230 rounded off = 200

$= 200 \times 200 = 40,000$

Thus, the product $40,000$ is an estimated product.

(d) 430×199

430 rounded off = 400

199 rounded off = 200

$= 400 \times 200 = 80,000$

Thus, the product $80,000$ is an estimated product.

(e) 576×318

576 rounded off = 600

318 rounded off = 300

$= 600 \times 300 = 1,80,000$

Thus, the product $1,80,000$ is an estimated product.

(f) 244×465

244 rounded off = 200

465 rounded off = 500

$= 200 \times 500$

$= 10,000$

Thus, the product $10,000$ is an estimated product.

(g) 208×425

208 rounded off = 200

425 rounded off = 400

$= 200 \times 400 = 80,000$

Thus, the product $80,000$ is an estimated product.

(h) 277×166

277 rounded off = 300

166 rounded off = 200

$= 300 \times 200 = 60,000$

Thus, the product $60,000$ is an estimated product.

2. Rounding off to nearest thousands

(a) 1932×4936

1932 rounded off = 2000

4936 rounded off = 5000

$= 2000 \times 5000 = 1,00,00,000$

Thus, $1,00,00,000$ is an estimated product.



(b) 2435×3010

2435 rounded off = 2000

3010 rounded off = 3000

$= 2000 \times 3000 = 60,00,000$

Thus, the product $60,00,000$ is an estimated product.

(c) 4218×2819

4218 rounded off = 4000

2819 rounded off = 3000

$= 4000 \times 3000 = 1,20,00,000$

Thus, the product $1,20,00,000$ is an estimated product.

(d) 3763×2555

3763 rounded off = 4000

2555 rounded off = 3000

$= 4000 \times 3000 = 1,20,00,000$

Thus, the product 1200000 is an estimated product.

(e) 7500×8108

7508 rounded off = 8000

8108 rounded off = 8000

$= 8000 \times 8000 = 6,40,00,000$

Thus, the product $6,40,00,000$ is an estimated product.

(f) 6539×3333

6539 rounded off = 7000

3333 rounded off = 3000

$= 7000 \times 3000 = 2,10,00,000$

Thus, the product $2,10,00,000$ is an estimated product.

(g) 4444×2089

4444 rounded off = 4000

2089 rounded off = 2000

$= 4000 \times 2000 = 80,00,000$

Thus, the product $80,00,000$ is an estimated product.



(h) 5368×4896

5368 rounded off = 5000

4896 rounded off = 5000

$$= 5000 \times 5000 = 2,50,00,000$$

Thus, the product $2,50,00,000$ is an estimated product.

3. The number of rows = 143

The number of books in each row = 109

The estimated number of rows nearest $10 = 140$

The estimated number of books in each row nearest $10 = 110$

The total number of books by rounding off nearest $10 = 140 \times 110$
 $= 15400$

Thus, the estimated total number of books by rounding off to nearest 10 is 15400 .

4. The cost of one can of juice = ₹ 158

The total number of juice cans = 45

Ritu spend money = ₹ 158×45

$$= ₹ 7110$$

Ritu would spend by rounding off to the nearest tens is ₹ 7110 .

Mental Maths

1. 0 2. 1936 3. product 4. 343000 5. multiplied 6. multiplier 7. 8923 8. 1
9. 0 10. 463,729

Multiple Choice Questions (MCQs) :

1. (c) product 2. (b) 250 3. (a) 0 4. (c) 475800 5. (a) 11

Chapter

5

Division

Quick Recall!!

1.

Division fact	Dividend	Divisor	Quotient
a) $40 \div 10$	40	10	4
b) $21 \div 3$	21	3	7
c) $14 \div 2$	14	2	7

2. (a) $20 \div 2 = 10$ (b) $27 \div 3 = 9$ (c) $25 \div 5 = 5$ (d) $16 \div 4 = 4$

$$\begin{array}{r} 10 \\ 2 \overline{) 20} \\ \underline{-20} \\ 0 \end{array}$$

$$\begin{array}{r} 9 \\ 3 \overline{) 27} \\ \underline{-27} \\ 0 \end{array}$$

$$\begin{array}{r} 5 \\ 5 \overline{) 25} \\ \underline{-25} \\ 0 \end{array}$$

$$\begin{array}{r} 4 \\ 4 \overline{) 16} \\ \underline{-16} \\ 0 \end{array}$$

Practice Coach - 1 !

1. (a) 450 (b) 1 (c) 24 (d) 1 (e) 0 (f) 195 (g) 261 (h) 1

Practice Coach - 2 !

1. (a) $Q = 8, R = 6$ (b) $Q = 4, R = 58$ (c) $Q = 1, R = 983$ (d) $Q = 938, R = 5$ (e) $Q = 24, R = 58$ (f) $Q = 19, R = 0$ (g) $Q = 79, R = 757$ (h) $Q = 192, R = 13$ (i) $Q = 23, R = 5$ (j) $Q = 45, R = 86$ (k) $Q = 58, R = 459$ (l) $Q = 96, R = 283$ (m) $Q = 368, R = 5$ (n) $Q = 29, R = 8$ (o) $Q = 45, R = 83$ (p) $Q = 68, R = 546$

Practice Coach - 3 !

1. (a) $121 \div 11$

$$\begin{array}{r} 11 \overline{) 121} (11 \\ \underline{-11 \downarrow} \\ 11 \\ \underline{-11} \\ 0 \end{array}$$

$Q = 11, R = 0$

- (d) $307 \div 22$

$$\begin{array}{r} 22 \overline{) 307} (13 \\ \underline{-22 \downarrow} \\ 87 \\ \underline{66} \\ 21 \end{array}$$

$Q = 13, R = 21$

2. (a) $1935 \div 25$

$$\begin{array}{r} 25 \overline{) 1935} (77 \\ \underline{-175 \downarrow} \\ 185 \\ \underline{175} \\ 10 \end{array}$$

$Q = 77, R = 10$

- (b) $107 \div 15$

$$\begin{array}{r} 15 \overline{) 107} (7 \\ \underline{-105} \\ 2 \end{array}$$

$Q = 7, R = 2$

- (e) $504 \div 28$

$$\begin{array}{r} 28 \overline{) 504} (18 \\ \underline{-28 \downarrow} \\ 224 \\ \underline{-224} \\ 0 \end{array}$$

$Q = 18, R = 0$

- (b) $2248 \div 7$

$$\begin{array}{r} 7 \overline{) 2248} (321 \\ \underline{-21 \downarrow} \\ 14 \\ \underline{14 \downarrow} \\ 08 \\ \underline{07} \\ -7 \\ \underline{-7} \\ 1 \end{array}$$

$Q = 321, R = 1$

- (c) $182 \div 12$

$$\begin{array}{r} 12 \overline{) 182} (15 \\ \underline{-12 \downarrow} \\ 62 \\ \underline{-60} \\ 2 \end{array}$$

$Q = 15, R = 2$

- (f) $775 \div 35$

$$\begin{array}{r} 35 \overline{) 775} (22 \\ \underline{-70 \downarrow} \\ 75 \\ \underline{-70} \\ 5 \end{array}$$

$Q = 22, R = 5$

- (c) $2876 \div 2$

$$\begin{array}{r} 2 \overline{) 2876} (1438 \\ \underline{-2 \downarrow} \\ 08 \\ \underline{-8 \downarrow} \\ 07 \\ \underline{-6 \downarrow} \\ 16 \\ \underline{-16} \\ 0 \end{array}$$

$Q = 1438, R = 0$



$$(d) 9985 \div 8$$

$$\begin{array}{r} 8 \overline{) 9985} \quad (1248 \\ \underline{-8 \downarrow} \\ 19 \\ \underline{-16 \downarrow} \\ 38 \\ \underline{-32 \downarrow} \\ 65 \\ \underline{-64} \\ 1 \end{array}$$

$$Q = 1248, R = 1$$

$$(e) 5438 \div 6$$

$$\begin{array}{r} 6 \overline{) 5438} \quad (906 \\ \underline{-54 \downarrow \downarrow} \\ 038 \\ \underline{-36} \\ 2 \end{array}$$

$$Q = 906, R = 2$$

$$(f) 1968 \div 9$$

$$\begin{array}{r} 9 \overline{) 1968} \quad (218 \\ \underline{-18 \downarrow} \\ 16 \\ \underline{-9 \downarrow} \\ 78 \\ \underline{-72} \\ 6 \end{array}$$

$$Q = 218, R = 6$$

$$3. (a) 6293 \div 31$$

$$\begin{array}{r} 31 \overline{) 6293} \quad (203 \\ \underline{-62 \downarrow \downarrow} \\ 093 \\ \underline{-93} \\ 0 \end{array}$$

$$Q = 203$$

$$(b) 8001 \div 63$$

$$\begin{array}{r} 63 \overline{) 8001} \quad (127 \\ \underline{-63 \downarrow} \\ 170 \\ \underline{-126 \downarrow} \\ 441 \\ \underline{-441} \\ 0 \end{array}$$

$$Q = 127$$

$$(c) 8740 \div 42$$

$$\begin{array}{r} 42 \overline{) 8740} \quad (208 \\ \underline{-84 \downarrow \downarrow} \\ 340 \\ \underline{-336} \\ 4 \end{array}$$

$$Q = 208$$

$$(d) 848 \div 53$$

$$\begin{array}{r} 53 \overline{) 848} \quad (16 \\ \underline{-53 \downarrow \downarrow} \\ 318 \\ \underline{-318} \\ 0 \end{array}$$

$$Q = 16$$

$$(e) 6204 \div 94$$

$$\begin{array}{r} 94 \overline{) 6204} \quad (66 \\ \underline{-564 \downarrow} \\ 564 \\ \underline{-564} \\ 0 \end{array}$$

$$Q = 66$$

$$(f) 4312 \div 14$$

$$\begin{array}{r} 14 \overline{) 4312} \quad (308 \\ \underline{-42 \downarrow \downarrow} \\ 112 \\ \underline{-112} \\ 0 \end{array}$$

$$Q = 308$$

Practice Coach - 4 !

1. The number of buttons = 1400

The number of boxes = 100

$$\begin{aligned} \text{Buttons were kept in each box} &= 1400 \div 100 \\ &= 14 \end{aligned}$$

Thus, 14 buttons were kept in each box.

2. A factory produces bulbs = 4800 ÷ 8

The number of hours = 8

$$\begin{aligned} \text{The bulbs are produced in an hour} &= 4800 \\ &= 600 \end{aligned}$$

Thus, the factory produces 600 bulbs in one hour.

$$\begin{array}{r} 14 \overline{) 1400} \quad (100 \\ \underline{-14} \\ 0 \end{array}$$

$$\begin{array}{r} 8 \overline{) 4800} \quad (600 \\ \underline{-48} \\ 0 \end{array}$$



3. The number of books in a library = 4500
 The number of cartons = 12
 Books are packed in each carton = $4500 \div 12$
 $= 375$

Thus, there are 375 books packed in each carton.

4. The number of students in a school = 255
 The number of rows = 15
 The students will stand in each row = $255 \div 15$
 $= 17$

Thus, 17 students will stand in each row.

5. The paper strips together make a design = 5
 The number of total paper strips = 2645
 The designs can be made with total paper strips
 $= 2645 \div 5 = 529$

Thus, 529 similar designs can be made with 2645 paper strips.

6. A basket can hold apples = 34
 The number of total apples = 7650
 The baskets are needed for keeping all apples
 $= 7650 \div 34$
 $= 225$

Thus, 225 baskets are needed for keeping 7650 apples.

7. Amit can read pages in a day = 25
 The number of total pages in a book = 675
 The number of days he will be able to read a book
 $= 675 \div 25 = 27$

Thus, in 27 days he will be able to read a book having 675 pages.

8. Mukul has crayons = 1428
 The number of packets = 19
 He put in each packet = $1428 \div 19 = 75$
 left crayons = remainder = 3

Thus, he put 75 crayons in each packet and 3 are left.

$$\begin{array}{r} 12 \overline{) 4500} \quad (375 \\ \underline{-36 \downarrow} \\ 90 \\ \underline{-84 \downarrow} \\ 60 \\ \underline{-60} \\ 0 \end{array}$$

$$\begin{array}{r} 15 \overline{) 255} \quad (17 \\ \underline{-15 \downarrow} \\ 105 \\ \underline{-105} \\ 0 \end{array}$$

$$\begin{array}{r} 5 \overline{) 2645} \quad (529 \\ \underline{-25 \downarrow} \\ 14 \\ \underline{-10 \downarrow} \\ 45 \\ \underline{-45} \\ 0 \end{array}$$

$$\begin{array}{r} 34 \overline{) 7650} \quad (225 \\ \underline{-68 \downarrow} \\ 85 \\ \underline{-68 \downarrow} \\ 170 \\ \underline{-170} \\ 0 \end{array}$$

$$\begin{array}{r} 25 \overline{) 675} \quad (27 \\ \underline{-50 \downarrow} \\ 175 \\ \underline{-175} \\ 0 \end{array}$$

$$\begin{array}{r} 19 \overline{) 1428} \quad (75 \\ \underline{-133 \downarrow} \\ 98 \\ \underline{-95} \\ 3 \end{array}$$



9. The number of floors = 17

The number of stairs = 425

$$\begin{aligned} \text{The stairs are there between each floor} &= 425 \div 17 \\ &= 25 \end{aligned}$$

Thus, there are 25 stairs between each floor.

10. The number of cycles = 9

The cost of 9 cycles = ₹ 6750

$$\begin{aligned} \text{The cost of 1 cycle} &= ₹ 6750 \div 9 \\ &= ₹ 750 \end{aligned}$$

Thus, the cost of 1 cycle is ₹ 750.

$$\begin{array}{r} 17 \overline{) 425} \quad (25 \\ \underline{-34} \\ 85 \\ \underline{-85} \\ 0 \end{array}$$

$$\begin{array}{r} 9 \overline{) 6750} \quad (750 \\ \underline{-63} \\ 45 \\ \underline{-45} \\ 0 \end{array}$$

Practice Coach - 5 !

1. (a) $313 \div 32$

313 rounded off = 300 (nearest 100)

32 rounded off = 30 (nearest 10)

$$\therefore 300 \div 30 = 10$$

$$\begin{array}{r} 30 \overline{) 300} \quad (10 \\ \underline{-300} \\ 0 \end{array}$$

(b) $587 \div 23$

587 rounded off = 600 (nearest 100)

23 rounded off = 20 (nearest 10)

$$\therefore 600 \div 20 = 30$$

$$\begin{array}{r} 20 \overline{) 600} \quad (30 \\ \underline{-600} \\ 0 \end{array}$$

(c) $209 \div 53$

209 rounded off = 200 (nearest 100)

53 rounded off = 50 (nearest 10)

$$\therefore 200 \div 50 = 4$$

$$\begin{array}{r} 50 \overline{) 200} \quad (4 \\ \underline{-200} \\ 0 \end{array}$$

(d) $622 \div 63$

622 rounded off = 600 (nearest 100)

63 rounded off = 60 (nearest 10)

$$\therefore 600 \div 60 = 10$$

$$\begin{array}{r} 60 \overline{) 600} \quad (10 \\ \underline{-600} \\ 0 \end{array}$$

(e) $462 \div 13$

462 rounded off = 500 (nearest 100)

13 rounded off = 10 (nearest 10)

$$\therefore 500 \div 10 = 50$$

$$\begin{array}{r} 10 \overline{) 500} \quad (50 \\ \underline{-500} \\ 0 \end{array}$$

(f) $829 \div 42$

829 rounded off = 800 (nearest 100)

42 rounded off = 40 (nearest 10)

$$\therefore 800 \div 40 = 20$$

$$\begin{array}{r} 40 \overline{) 800} \quad (20 \\ \underline{-800} \\ 0 \end{array}$$



- (g) $719 \div 13$
 719 rounded off = 700 (nearest 100)
 13 rounded off = 10 (nearest 10)
 $\therefore 700 \div 10 = 70$

$$\begin{array}{r} 10 \overline{) 700} \quad (70 \\ -700 \\ \hline 0 \end{array}$$

- (h) $2799 \div 12$
 2799 rounded off = 2800 (nearest 100)
 12 rounded off = 10 (nearest 10)
 $\therefore 2800 \div 10 = 280$

$$\begin{array}{r} 10 \overline{) 2800} \quad (280 \\ -20 \downarrow \\ \hline 80 \\ \hline 80 \\ \hline 0 \end{array}$$

2. 560 rounded off to the nearest ten is 560 and
 12 rounded off to the nearest ten is 10 .

$$\therefore 560 \div 10 = 56$$

So, 56 cubes of sugar in each serving rounded off to the nearest 10 .

3. The number of fish tanks = 25

The number of goldfish = 648

Estimate the number of goldfish rounded off to the nearest $10 = 650$

$$\begin{aligned} \text{The gold fish in each tank} &= 650 \div 25 \\ &= 26 \end{aligned}$$

Thus, The estimated number of goldfish is 26 in each tank rounded off to the nearest 10 .

Mental Maths

1. $Q = 48, R = 3$ 2. $Q = 8, R = 46$ 3. Quotient 4. dividend 5. divisor
 6. 45 7. 1 8. 0 9. $Q = 49, R = 5$ 10. $Q = 89, R = 68$

Multiple Choice Questions (MCQs) :

1. (a) dividend 2. (b) 25 3. (a) remainder 4. (c) 2164 5. (c) 4

Chapter

6

Factors and Multiples

Practice Coach - 1 !

1. (a) $16 = 1, 2, 4, 8, 16$
 (c) $42 = 1, 2, 3, 6, 7, 14, 21, 42$
 (e) $15 = 1, 3, 5, 15$
2. 1. $30 = 1 \times 30$
 $30 = 2 \times 15$
 $30 = 3 \times 10$
 $30 = 6 \times 5$
 Factors of 30 are
 $1, 2, 3, 5, 6, 10, 15, 30$
- (b) $18 = 1, 2, 3, 6, 9, 18$
 (d) $35 = 1, 5, 7, 35$
 (f) $36 = 1, 2, 3, 4, 6, 9, 12, 18, 36$
2. $81 = 1 \times 81$
 $81 = 9 \times 9$
 Factors of 81 are
 $1, 9, 81$



Practice Coach - 2 !

1. (a) $40 = 1, 2, 4, 5, 8, 10, 20, 40$; (b) $28 = 1, 2, 4, 7, 14, 28$;
(c) $18 = 1, 2, 3, 6, 9, 18$ (d) $25 = 1, 5, 25$; (e) $49 = 1, 7, 49$;
(f) $12 = 1, 2, 3, 4, 6, 12$; (g) $8 = 1, 2, 4, 8$; (h) $30 = 1, 2, 3, 5, 6, 10, 15, 30$;

2. (a) ✓ (b) ✓ (c) ✗ (d) ✗ (e) ✓ (f) ✗ (g) ✓ (h) ✗

3. (a) $1 \times 32 = 32$ (so, 1 and 32 are factors of 32)
 $2 \times 16 = 32$ (so, 2 and 16 are factors of 32)
 $4 \times 8 = 32$ (so, 4 and 8 are factors of 32)

Hence, 1, 2, 4, 8, 16 and 32 are factors of 32.

- (b) $1 \times 75 = 75$ (so, 1 and 75 are factors of 75)
 $3 \times 25 = 75$ (so, 3 and 25 are factors of 75)
 $5 \times 15 = 75$ (so, 5 and 15 are factors of 75)

Hence 1, 3, 5, 15, 25 and 75 are factors of 75.

- (c) $1 \times 93 = 93$ (so, 1 and 93 are the factors of 93)
 $3 \times 31 = 93$ (so, 3 and 31 are the factors of 93)

Hence 1, 3, 31 and 93 are the factors of 93.

- (d) $1 \times 28 = 28$ (so, 1 and 28 are the factors of 28)
 $2 \times 14 = 28$ (so, 2 and 14 are the factors of 28)
 $4 \times 7 = 28$ (so, 4 and 7 are the factors of 28)

Hence, 1, 2, 4, 7, 14 and 28 are the factors of 28.

- (e) $1 \times 54 = 54$ (so, 1 and 54 are the factors of 54)
 $2 \times 27 = 54$ (so, 2 and 27 are the factors of 54)
 $3 \times 18 = 54$ (so, 3 and 18 are the factors of 54)
 $6 \times 9 = 54$ (so, 6 and 9 are the factors of 54)

Hence, 1, 2, 3, 6, 9, 18, 27 and 54 are the factors of 54.

- (f) $1 \times 81 = 81$ (so, 1 and 81 are the factors of 81)
 $3 \times 27 = 81$ (so, 3 and 27 are the factors of 81)
 $9 \times 9 = 81$ (so, 9 is the factor of 81)

Hence, 1, 3, 9, 27 and 81 are the factors of 81.

- (g) $1 \times 64 = 64$ (so, 1 and 64 are the factors of 64)
 $2 \times 32 = 64$ (so, 2 and 32 are the factors of 64)
 $4 \times 16 = 64$ (so, 4 and 16 are the factors of 64)
 8×8 (so, 8 is the factor of 64)

Hence 1, 2, 4, 8, 16, 32 and 64 are the factors of 64.

- (h) $1 \times 18 = 18$ (so, 1 and 18 are the factors of 18)
 $2 \times 9 = 18$ (so, 2 and 9 are the factors of 18)
 $3 \times 6 = 18$ (so, 3 and 6 are the factors of 18)

Hence, 1, 2, 3, 6, 9 and 18 are the factors of 18.

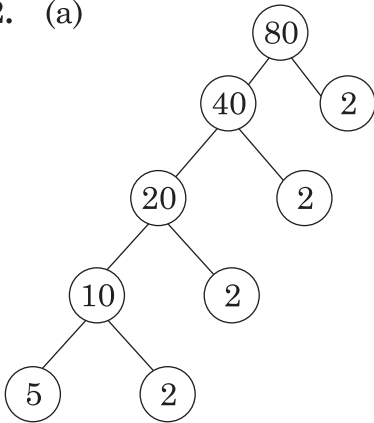


Practice Coach - 3 !

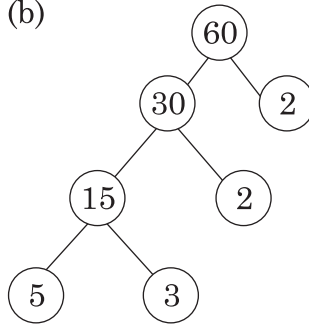
1.

	Number	Greatest	Smallest
a)	25	25	5
b)	42	42	2
c)	64	64	2
d)	76	76	2

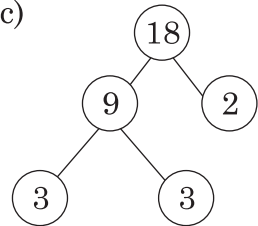
2. (a)



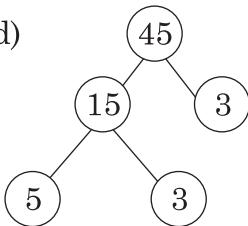
(b)



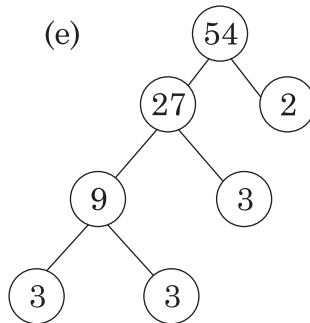
(c)



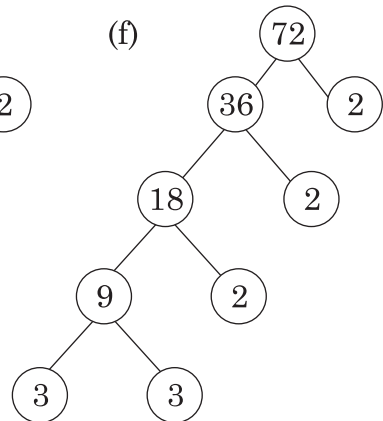
(d)



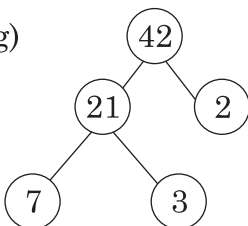
(e)



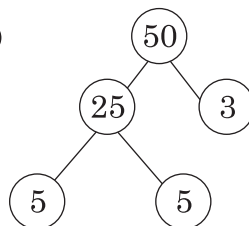
(f)



(g)



(h)



3. (a) $1 \times 48 = 48$

$2 \times 24 = 48$

$3 \times 16 = 48$

$4 \times 12 = 48$

$6 \times 8 = 48$

Factors of 48 are

1, 2, 3, 4, 6, 8, 12, 16, 24, 48

Thus, the common factor of 48 and 14 are 1 and 2.

(b) $1 \times 18 = 18$

$2 \times 9 = 18$

$3 \times 6 = 18$

Factors of 18 are

1, 2, 3, 6, 9, 18

Thus, the common factors of 18 and 30 are 1, 2, 3 and 6.

(c) $1 \times 14 = 14$

$2 \times 7 = 14$

Factors of 14 are

1, 2, 7, 14

Thus, the common factors of 14 and 56 are 1, 2, 7 and 14.

(d) $1 \times 18 = 18$

$2 \times 9 = 18$

$3 \times 6 = 18$

Factors of 18 are

1, 2, 3, 6, 9, 18

Thus, the common factors of 18 and 42 are 1, 2, 3, and 6.

(e) $1 \times 56 = 56$

$2 \times 28 = 56$

$4 \times 14 = 56$

$7 \times 8 = 56$

Factors of 56 are

1, 2, 4, 7, 8, 14, 28, 56

Thus, the common factors of 56 and 84 are 1, 2, 4, 7, 14 and 28.

(f) $1 \times 12 = 12$

$2 \times 6 = 12$

$3 \times 4 = 12$

Factors of 12 are

1, 2, 3, 4, 6, 12

Thus, the common factors of 12 and 32 are 1, 2 and 4.

$1 \times 14 = 14$

$2 \times 7 = 14$

Factors of 14 are

1, 2, 7, 14

$1 \times 30 = 30$

$2 \times 15 = 30$

$3 \times 10 = 30$

$5 \times 6 = 30$

Factors of 30 are

1, 2, 3, 5, 6, 10, 15, 30

$1 \times 56 = 56$

$2 \times 28 = 56$

$4 \times 14 = 56$

$7 \times 8 = 56$

Factors of 56 are

1, 2, 4, 7, 8, 14, 28, 56

$1 \times 42 = 42$

$2 \times 21 = 42$

$3 \times 14 = 42$

$6 \times 7 = 42$

Factors of 42 are

1, 2, 3, 6, 7, 14, 21, 42

$1 \times 84 = 84$

$2 \times 42 = 84$

$3 \times 28 = 84$

$4 \times 21 = 84$

$6 \times 14 = 84$

$7 \times 12 = 84$

Factors of 84 are

1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84

$1 \times 32 = 32$

$2 \times 16 = 32$

$4 \times 8 = 32$

Factors of 32 are

1, 2, 4, 8, 16, 32



(g) $1 \times 15 = 15$
 $3 \times 5 = 15$
Factors of 15 are
1, 3, 5, 15

$1 \times 30 = 30$
 $2 \times 15 = 30$
 $3 \times 10 = 30$
 $5 \times 6 = 30$
Factors of 30 are
1, 2, 5, 6, 15, 30

Thus, the common factors of 15 and 30 are 1, 3, 5 and 15.

(h) $1 \times 13 = 13$

Factors of 13 are
1, 13

$1 \times 39 = 39$
 $3 \times 13 = 39$
Factors of 39 are
1, 3, 13, 39

Thus, the common factors of 13 and 39 are 1 and 13.

(i) $1 \times 55 = 55$
 $5 \times 11 = 55$
Factors of 55 are
1, 5, 11, 55

$1 \times 11 = 11$
Factors of 11 are
1, 11

Thus, the common factors of 55 and 11 are 1 and 11.

(j) $1 \times 16 = 16$
 $2 \times 8 = 16$
 $4 \times 4 = 16$
Factors of 16 are
1, 2, 4, 8, 16

$1 \times 28 = 28$
 $2 \times 14 = 28$
 $4 \times 7 = 28$
Factors of 28 are
1, 2, 4, 7, 14, 28

Thus, the common factors of 16 and 28 are 1, 2 and 4.

(k) $1 \times 12 = 12$
 $2 \times 6 = 12$
 $3 \times 4 = 12$

Factors of 12 are
1, 2, 3, 4, 6, 12

$1 \times 80 = 80$
 $2 \times 40 = 80$
 $4 \times 20 = 80$
 $5 \times 16 = 80$
 $8 \times 10 = 80$
Factors of 80 are
1, 2, 4, 5, 8, 10, 16, 20, 40, 80

Thus, the common factors of 12 and 80 are 1, 2 and 4.

(l) $1 \times 49 = 49$
 $7 \times 7 = 49$
Factors of 49 are
1, 7, 49

$1 \times 84 = 84$
 $2 \times 42 = 84$
 $3 \times 28 = 84$
 $4 \times 21 = 84$
 $6 \times 14 = 84$
 $7 \times 12 = 84$
Factors of 84 are
1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84

Thus, the common factors of 49 and 84 are 1 and 7.



Practice Coach - 4 !

1. (a) $27 = 1 \times 27$
 $= 3 \times 9$

Factors of 27 are

1, 3, 9, 27

3 is the only common factor of 27 and 24.

Thus, 3 is the HCF of 27 and 24.

(b) $28 = 1 \times 28$
 $= 2 \times 14$
 $= 3 \times 8$
 $= 4 \times 7$

Factors of 28 are

1, 2, 3, 4, 7, 8, 14, 28

2, 4 and 8 are common factors of 28 and 40.

Thus, 2, 4 and 8 are the HCF of 28 and 40.

(c) $88 = 1 \times 88$
 $= 2 \times 44$
 $= 4 \times 22$
 $= 8 \times 11$

Factors of 88 are

1, 2, 4, 8, 11, 22, 44, 88

2 and 4 are common factors of 88 and 12.

Thus, 2 and 4 are the HCF of 88 and 12.

(d) $36 = 1 \times 36$
 $= 2 \times 18$
 $= 3 \times 12$
 $= 4 \times 9$
 $= 6 \times 6$

Factors of 36 are

1, 2, 3, 4, 6, 9, 12, 18, 36

2 and 3 are the common factors of 36 and 66.

Thus, 2 and 3 are the HCF of 36 and 66.

$24 = 1 \times 24$
 $= 2 \times 12$
 $= 3 \times 8$
 $= 4 \times 6$

Factors of 24 are

1, 2, 3, 4

$40 = 1 \times 40$
 $= 2 \times 20$
 $= 4 \times 10$
 $= 5 \times 8$

Factors of 40 are

1, 2, 4, 5, 8, 10, 20, 40

$12 = 1 \times 12$
 $= 2 \times 6$
 $= 3 \times 4$

Factors of 12 are

1, 2, 3, 4, 6, 12

$66 = 1 \times 66$
 $= 2 \times 33$
 $= 3 \times 11$

Factors of 66 are

1, 2, 3, 11, 33, 66



$$\begin{aligned} \text{(e) } 49 &= 1 \times 49 \\ &= 7 \times 7 \end{aligned}$$

Factors of 49 are
1, 7, 49

7 is the only factor of 49 and 84.
Thus, 7 is the HCF of 49 and 84.

$$\begin{aligned} \text{(f) } 25 &= 1 \times 25 \\ &= 5 \times 5 \end{aligned}$$

Factors of 25 are
1, 5, 25

$$\begin{aligned} \text{(g) } 50 &= 1 \times 50 \\ &= 2 \times 25 \\ &= 5 \times 10 \\ &= 5 \times 10 \end{aligned}$$

Factors of 50 are
1, 2, 5, 10, 25, 50

25, 10, 25 and 50 are common factors of 50 and 100.
Thus, 2, 5, 10, 25 and 50 are the HCF of 50 and 100.

$$\begin{aligned} \text{(h) } 93 &= 1 \times 93 \\ &= 3 \times 31 \end{aligned}$$

Factors of 93 are
1, 3, 31, 93

3 is the only common factor of 93 and 36.
Thus, 3 is the HCF of 93 and 36.

$$\begin{aligned} \text{(i) } 55 &= 1 \times 55 \\ &= 5 \times 11 \end{aligned}$$

Factors of 55 are
1, 5, 11, 55

11 is the only common factor of 55 and 11.
Thus, 11 is the HCF of 55 and 11.

$$\begin{aligned} 84 &= 1 \times 84 \\ &= 2 \times 42 \\ &= 3 \times 28 \\ &= 4 \times 21 \\ &= 6 \times 14 \\ &= 7 \times 12 \end{aligned}$$

Factors of 84 are
1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84

$$\begin{aligned} 35 &= 1 \times 35 \\ &= 5 \times 7 \end{aligned}$$

Factors of 35 are 1, 5, 7, 35

5 is the only common factor of
25 and 35.

Thus, 5 is the HCF of 25 and 35.

$$\begin{aligned} 100 &= 1 \times 100 \\ &= 2 \times 50 \\ &= 4 \times 25 \\ &= 5 \times 20 \\ &= 10 \times 10 \end{aligned}$$

Factors of 100 are
1, 2, 4, 5, 10, 20, 25, 50, 100

$$\begin{aligned} 36 &= 1 \times 36 \\ &= 2 \times 18 \\ &= 3 \times 12 \\ &= 4 \times 9 \end{aligned}$$

Factors of 36 are
1, 2, 3, 4, 6, 9, 12, 18, 36

$$11 = 1 \times 11$$

Factors of 11 are
1, 11



2. Prime numbers = 5,7,13,17,19,23,29,31,37,47
Composite numbers = 4,6,15,20,35,58,63,64,72,78,81,86,95,99
3. 2,3,5,7,11,13,17,19
4. Smallest prime number = 2
5. 4,6,8,10,12,14,15,16,18,20,21,22,24,25,26,27,28
6. 48,78,92,84,66,100,56
7. 51,53,55,57,59,61,63,65,67,69,71,73,75,77,79,81,83,85,87,89,91,93,
95,97,99

Practice Coach - 5 !

1. (a) 10,15,20,25,30 (b) 16,24,32,40,48 (c) 18,27,36,45,54
(d) 24,36,48,60,72 (e) 30,45,60,75,90
 2. (a) 80,100,120,140 (b) 20,250,300,350 (c) 800, 1000, 1200, 1400 (d)
2000,2500,3000,3500
 3. (a) 15,25,35,45,55,65,75 (b) 18,36,54,72 (c) 45,75,105 (d) 42,84
 4. (a) 60,120,180 (b) 36,72,108 (c) 60,120,180 (d) 60,120,180
- Multiple of 4 = 4,8,12,16,20,24,28,32,36
Multiple of 5 = 5,10,20,25,30,35,40,45,50

Practice Coach - 6 !

1. (a) Multiple of 9 = 9,18,27,36,45,54,63,72,81,90
Multiple of 24 = 24,48,72,96,120
The least common multiple of 9 and 24 is 72.
- (b) Multiple of 9 = 9,18,27,36,45,54
Multiple of 15 = 15,30,45,60
The least common multiple of 9 and 15 is 45.
- (c) Multiple of 19 = 19,38,57,76,95,114,133,152,171,190,209,228,
247,266,285,304,323,342,380,399,418,437,456,
475,494,513,532,550,571,589,608,627,646,665,
684,703,722,741,760,779,798,817,836,855,874,
893,912,931,950,969,988,1007,1026,1045,1064,
1083,1102,1121,1140,1159,1178,1197,1216,
1235,1254,1273,292,1311,1330,1349,1368,1387,1406,
1425,1444,1520,1539,**1558**,1577,1596,1615
Multiple of 82 = 82,164,246,328,410,492,574,656,738,820,902,
984,1066,1148,1230,1312,1394,1476,**1558**,1640
The least common multiple of 19 and 82 is 1558.
- (d) 45 and 72
Multiple of 45 = 45,90,135,180,225,270,315,**360**,405
Multiple of 72 = 72,144,216,288,**360**,432
The least common multiple of 45 and 72 is 360.
- (e) 78 and 22
Multiple of 78 = 78,156,234,312,390,468,546,624,702,780,**858**,936



Multiple of 22 = 22, 44, 66, 88, 110, 132, 154, 176, 198, 220, 242, 264,
286, 308, 330, 352, 374, 396, 418, 440, 462, 484, 506,
528, 550, 572, 594, 616, 638, 660, 682, 704, 726, 748,
770, 792, 814, 836, **858**, 880

The least common multiple of 78 and 22 is 858.

(f) 66 and 18

Multiple of 66 = 66, 132, **198**, 264, 330, 396, 462, 528, 594, 660, 726,
792

Multiple of 18 = 18, 36, 54, 72, 90, 108, 126, 144, 162, 180, **198**, 216

The least common multiple of 66 and 18 is 198.

(g) 8 and 20

Multiple of 8 = 8, 16, 24, 32, **40**, 48

Multiple of 20 = 20, **40**, 60, 80

The least common multiple of 8 and 20 is 40.

(h) 50 and 70

Multiple of 50 = 50, 100, 150, 200, 250, 300, **350**, 400, 450, 500

Multiple of 70 = 70, 140, 210, 280, **350**, 420, 490

The least common multiple of 50 and 70 is 350.

(i) 30 and 60

Multiple of 30 = 30, 60, 90, **120**, 150, 180, 210

Multiple of 60 = 60, **120**, 180, 240

The least common multiple of 30 and 60 is 120.

Practice Coach - 7 !

- 305, 310, 315, 320, 325, 330, 335, 340, 345
- A number is divisible by 2 if it has 0, 2, 4, 6 and 8 at its ones place.
So, (a) 42 (b) 578 (h) 86 is divisible by 2.

- A teacher wants to sit students in columns = 100

The students in each column = 10

The total columns for 100 students = $100 \div 10 = 10$

It is possible because '0' is at its units place.

$$\begin{array}{r} 10 \overline{)100} (10 \\ -100 \\ \hline 0 \end{array}$$

- The number of balls = 50

The number of bags = 10

Akshay can pack ball in each bag = $50 \div 10$

It is possible because '0' is at its units place.

$$\begin{array}{r} 10 \overline{)50} (5 \\ -50 \\ \hline 0 \end{array}$$

Mental Maths

- False
- False
- True
- True
- True
- True
- True
- True
- False
- True

Multiple Choice Questions (MCQs) :

- (a) factor
- (c) 27
- (b) itself
- (b) 105
- (a) 450



Quick Recall!!

- (a) Numerator = 4, Denominator = 7, (b) Numerator = 3, Denominator = 8, (c) Numerator = 15, Denominator = 21, (d) Numerator = 2, Denominator = 5 (e) Numerator = 11, Denominator = 23
- (a) $\frac{2}{5}$ (b) $\frac{4}{8}$ (c) $\frac{2}{6}$ (d) $\frac{4}{9}$ (e) $\frac{6}{12}$ (f) $\frac{3}{8}$
- (a) $\frac{3}{5}$ (b) $\frac{1}{3}$ (c) $\frac{2}{7}$ (d) $\frac{5}{8}$
- (a) $\frac{1}{2} \times 22 = \frac{22}{2} \times 11$ balls (b) $\frac{1}{8} \times 24 = \frac{24}{8} = 3$ apples
(c) $\frac{1}{5} \times 25 = \frac{25}{5} \times 5$ bananas (d) $\frac{1}{4} \times 16 = \frac{16}{4} = 4$ roses.

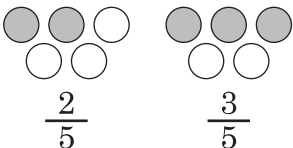
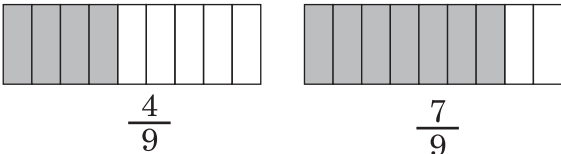
Practice Coach - 1 !

- a, c
- Do yourself
- (a) $\frac{4}{6}, \frac{6}{9}, \frac{8}{12}, \frac{10}{15}, \frac{12}{18}$
(b) $\frac{10}{16}, \frac{15}{24}, \frac{20}{32}, \frac{25}{40}, \frac{30}{48}$ (c) $\frac{12}{14}, \frac{18}{21}, \frac{24}{28}, \frac{30}{35}, \frac{36}{42}$
(d) $\frac{18}{20}, \frac{27}{30}, \frac{36}{40}, \frac{45}{50}, \frac{54}{60}$ (e) $\frac{18}{24}, \frac{27}{36}, \frac{3}{48}, \frac{45}{60}, \frac{54}{72}$
(f) $\frac{8}{32}, \frac{12}{48}, \frac{16}{64}, \frac{20}{80}, \frac{24}{96}$ (g) $\frac{6}{8}, \frac{9}{12}, \frac{12}{16}, \frac{15}{20}, \frac{18}{24}$
(h) $\frac{6}{10}, \frac{9}{15}, \frac{12}{20}, \frac{15}{25}, \frac{18}{30}$ (i) $\frac{8}{26}, \frac{12}{39}, \frac{16}{52}, \frac{20}{65}, \frac{24}{78}$
(j) $\frac{10}{18}, \frac{15}{27}, \frac{20}{36}, \frac{25}{45}, \frac{30}{54}$ (k) $\frac{8}{14}, \frac{12}{21}, \frac{16}{28}, \frac{20}{35}, \frac{24}{42}$
(l) $\frac{10}{18}, \frac{15}{27}, \frac{20}{36}, \frac{25}{45}, \frac{30}{54}$ (m) $\frac{10}{14}, \frac{15}{21}, \frac{20}{28}, \frac{25}{35}, \frac{30}{42}$
(n) $\frac{6}{14}, \frac{9}{21}, \frac{12}{28}, \frac{15}{35}, \frac{18}{42}$ (o) $\frac{4}{10}, \frac{6}{15}, \frac{8}{20}, \frac{10}{25}, \frac{12}{30}$
(p) $\frac{6}{16}, \frac{9}{24}, \frac{12}{32}, \frac{15}{40}, \frac{18}{48}$



4. (a) $\frac{1}{8}$ (b) $\frac{4}{8}$ (c) $\frac{3}{8}$ (d) $\frac{4}{8}$ 5. (a) $\frac{16}{13}$ (b) $\frac{16}{18}$ (c) $\frac{15}{56}$
 (d) $\frac{16}{52}$ 6. (a) $\frac{2}{6}$ (b) $\frac{6}{9}$ (c) $\frac{1}{4}$ (d) $\frac{6}{27}$ (e) $\frac{4}{10} = \frac{8}{20} = \frac{6}{15}$
 (f) $\frac{6}{16} = \frac{12}{32} = \frac{15}{40}$ (g) $\frac{3}{9} = \frac{4}{12} = \frac{5}{15}$ (h) $\frac{5}{10} = \frac{8}{16} = \frac{16}{32}$
7. (a) $\frac{6}{7}$ (b) $\frac{5}{6}$ (c) $\frac{1}{3}$ (d) $\frac{5}{6}$ (e) $\frac{3}{5}$ (f) $\frac{3}{5}$ (g) $\frac{1}{6}$
 (h) $\frac{13}{30}$ (i) $\frac{14}{15}$ (j) $\frac{11}{16}$ (k) $\frac{7}{8}$ (l) $\frac{1}{3}$

Practice Coach - 2 !

1. (a) $\frac{1}{9}, \frac{5}{9}, \frac{7}{9}$ (d) $\frac{4}{13}, \frac{3}{13}, \frac{9}{13}$ 2. (a) $\frac{5}{7}$ (b) $\frac{2}{5}$ (c) $\frac{8}{11}$ (d) $\frac{7}{13}$
3. (a)  (b) 
4. (a) $>$ (b) $>$ (c) $<$ (d) $>$ (e) $<$ 5. (a) $\frac{1}{11} < \frac{3}{11} < \frac{5}{11} < \frac{7}{11}$ (b) $\frac{1}{25} < \frac{3}{25} < \frac{8}{25} < \frac{11}{25}$ (c) $\frac{7}{45} < \frac{8}{45} < \frac{11}{45} < \frac{22}{45}$ (d) $\frac{1}{17} < \frac{3}{17} < \frac{5}{17} < \frac{9}{17}$
6. (a) $\frac{9}{19} > \frac{8}{19} > \frac{5}{19} > \frac{3}{19}$ (b) $\frac{13}{21} > \frac{11}{21} > \frac{9}{21} > \frac{5}{21}$ (c) $\frac{9}{10} > \frac{7}{10} > \frac{3}{10} > \frac{1}{10}$ (d) $\frac{17}{20} > \frac{11}{20} > \frac{7}{20} > \frac{1}{20}$

Practice Coach - 3 !

1. (a) $\frac{7}{14} + \frac{7}{14}$ (b) $\frac{3}{8} + \frac{5}{8}$ (c) $\frac{8}{12} + \frac{4}{12}$ (d) $\frac{9}{14} + \frac{5}{14}$
2. (a) $\frac{8}{21} - \frac{4}{21} = \frac{4}{21}$ (b) $\frac{5}{9} - \frac{2}{9} = \frac{3}{9}$ (c) $\frac{5}{11} - \frac{3}{11} = \frac{2}{11}$
 (d) $\frac{7}{18} - \frac{3}{18} = \frac{4}{18}$ 3. (a) $\frac{2}{15} + \frac{3}{15} = \frac{2+3}{15} = \frac{5}{15}$
 (b) $\frac{1}{8} + \frac{3}{8} = \frac{1+3}{8} = \frac{4}{8}$ (c) $\frac{5}{9} + \frac{1}{9} + \frac{1}{9} = \frac{5+1+1}{9} = \frac{7}{9}$
 (d) $\frac{9}{21} + \frac{11}{21} = \frac{9+11}{21} = \frac{20}{21}$ (e) $\frac{3}{20} + \frac{7}{20} = \frac{3+7}{20} = \frac{10}{20}$
 (f) $\frac{1}{19} + \frac{5}{19} + \frac{7}{19} = \frac{1+5+7}{19} = \frac{13}{19}$

4. Ajay bought sugar from shop 1 = $\frac{5}{8}$ kg

He bought sugar from shop 2 = $\frac{3}{8}$ kg

He bought sugar together from both shop = $\frac{5}{8} + \frac{3}{8} = \frac{5+3}{8} = \frac{8}{8}$

= 1 kg

5. (a) $\frac{7}{11} - \frac{3}{11} = \frac{7-3}{11} = \frac{4}{11}$ (b) $\frac{4}{5} - \frac{1}{5} = \frac{4-1}{5} = \frac{3}{5}$

(c) $\frac{19}{23} - \frac{11}{23} = \frac{19-11}{23} = \frac{8}{23}$ (d) $\frac{5}{9} - \frac{2}{9} = \frac{5-2}{9} = \frac{3}{9}$

(e) $\frac{8}{15} - \frac{2}{15} = \frac{8-2}{15} = \frac{6}{15}$ (f) $\frac{15}{27} - \frac{8}{27} = \frac{15-8}{27} = \frac{7}{27}$

6. Ananya ate chocolate on Monday = $\frac{3}{10}$

She ate chocolate on Tuesday = $\frac{7}{10}$

$$\frac{7}{10} > \frac{3}{10}$$

Thus, she ate more chocolate on Tuesday.

To find the fraction of chocolate how much she ate more, subtract the fraction.

$$\frac{7}{10} - \frac{3}{10} = \frac{7-3}{10} = \frac{4}{10}$$

Thus, she ate $\frac{4}{10}$ more chocolate on Tuesday than Monday.

Practice Coach - 4 !

1. Improper fractions = $\frac{9}{7}, \frac{35}{31}, \frac{24}{7}, \frac{5}{3}, \frac{15}{8}, \frac{9}{2}, \frac{11}{10}$ and $\frac{22}{5}$

Proper fractions = $\frac{2}{3}, \frac{5}{8}, \frac{6}{11}, \frac{48}{49}, \frac{97}{100}, \frac{3}{10}$ and $\frac{9}{11}$

2. (a) $\frac{27}{5} = 5\frac{2}{5}$ (b) $\frac{44}{9} = 4\frac{8}{9}$ (c) $\frac{71}{8} = 8\frac{7}{8}$ (d) $\frac{16}{7} = 2\frac{2}{7}$

(e) $\frac{15}{4} = 3\frac{3}{4}$ (f) $\frac{17}{9} = 1\frac{8}{9}$ (g) $\frac{18}{5} = 3\frac{3}{5}$ (h) $\frac{22}{3} = 7\frac{1}{3}$

(i) $\frac{21}{5} = 4\frac{1}{5}$ (j) $\frac{25}{4} = 6\frac{1}{4}$

3. (a) $3\frac{1}{3} = \frac{(3 \times 3) + 1}{3} = \frac{9+1}{3} = \frac{10}{3}$ (b) $7\frac{1}{2} = \frac{(7 \times 2) + 1}{2} = \frac{14+1}{2} = \frac{15}{2}$

(c) $11\frac{1}{3} = \frac{(3 \times 11) + 1}{3} = \frac{33+1}{3} = \frac{34}{3}$ (d) $4\frac{5}{8} = \frac{(8 \times 4) + 5}{8} = \frac{40+5}{8} = \frac{45}{8}$



$$(e) 7\frac{2}{9} = \frac{(9 \times 7) + 2}{9} = \frac{63 + 2}{9} = \frac{65}{9}$$

$$(f) 7\frac{3}{5} = \frac{(5 \times 7) + 3}{5} = \frac{35 + 3}{5} = \frac{38}{5}$$

$$(g) 5\frac{2}{3} = \frac{(3 \times 5) + 2}{3} = \frac{15 + 2}{3} = \frac{17}{3}$$

$$(h) \frac{(9 \times 9) + 1}{9} = \frac{81 + 1}{9} = \frac{82}{9}$$

$$(i) 10\frac{5}{8} = \frac{(8 \times 10) + 5}{8} = \frac{80 + 5}{8} = \frac{85}{8}$$

$$(j) 5\frac{3}{4} = \frac{(5 \times 4) + 3}{4} = \frac{20 + 3}{4} = \frac{23}{4}$$

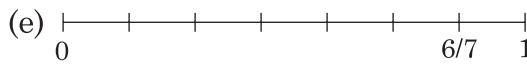
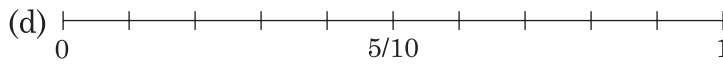
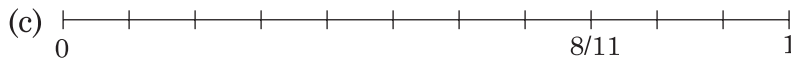
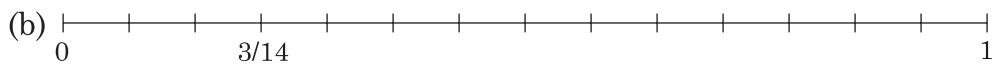
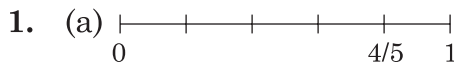
4. Mixed fractions = (a) $3\frac{1}{2}$

(b) $5\frac{1}{4}$ (c) $6\frac{2}{6}$

Improper fractions = (a) $\frac{7}{2}$

(b) $\frac{21}{4}$ (c) $\frac{38}{6}$

Practice Coach - 5 !



2. (a) $\frac{6}{11}$

(b) $\frac{4}{9}$

(c) $\frac{11}{13}$

Mental Maths

1. 5 2. - 3. False 4. No 5. $\frac{15}{15} = 1$ 6. $\frac{7}{11}$

7. $\frac{1}{2}$ 8. $7\frac{2}{5}$ 9. $\frac{52}{11}$ 10. No

Multiple Choice Questions (MCQs) :

1. (c) $\frac{9}{69}$

2. (c) $\frac{4}{18}$

3. (a) whole

4. (b) $3\frac{3}{12}$

5. (a) $\frac{31}{4}$

Chapter

8

Metric Measures

Practice Coach - 1 !

1. Convert into centimeters :

(a) 4 m

1 m = 100 cm

4 m = $4 \times 100 = 400$ cm

(b) 19 m

1 m = 100 cm

19 m = 19×100 cm = 1900 cm



(c) 463 m

$$1\text{ m} = 100\text{ cm}$$

$$463\text{ m} = 463 \times 100\text{ cm}$$

$$= 46300\text{ cm}$$

(e) 5 m 68 cm

$$1\text{ m} = 100\text{ cm}$$

$$5\text{ m } 68\text{ cm} = 5\text{ m} + 68\text{ cm}$$

$$= 5 \times 100\text{ cm} + 68\text{ cm}$$

$$= 500\text{ cm} + 68\text{ cm}$$

$$= 568\text{ cm}$$

(g) 73 m 52 cm = 73 m + 52 cm

$$= 73 \times 100\text{ cm} + 52\text{ cm} = 7300\text{ cm} + 52\text{ cm} = 7352\text{ cm}$$

(h) 35 m 19 cm = 35 m + 19 cm

$$= 35 \times 100\text{ cm} + 19\text{ cm} = 3500\text{ cm} + 19\text{ cm} = 3519\text{ cm}$$

(i) 41 m 70 cm = 41 m + 70 cm

$$= 41 \times 100\text{ cm} + 70\text{ cm} = 4100\text{ cm} + 70\text{ cm} = 4170\text{ cm}$$

(j) 338 m 15 cm = 338 m + 15 cm

$$= 338 \times 100\text{ cm} + 15\text{ cm} = 33800\text{ cm} + 15\text{ cm}$$

$$= 33815\text{ cm}$$

(k) 463 m 12 cm = 463 m + 12 cm

$$= 463 \times 100\text{ cm} + 12\text{ cm} = 46300\text{ cm} + 12\text{ cm}$$

$$= 46312\text{ cm}$$

(l) 628 m 19 cm = 628 m + 19 cm

$$= 628 \times 100\text{ cm} + 19\text{ cm} = 62800\text{ cm} + 19\text{ cm}$$

$$= 62819\text{ cm}$$

2. (a) 300 cm

$$100\text{ cm} = 1\text{ m}$$

$$300\text{ cm} = 300 \div 100\text{ m} = 3\text{ m}$$

(c) 1500 cm

$$100\text{ cm} = 1\text{ m}$$

$$1500\text{ cm} = 1500 \div 100\text{ m}$$

$$= 15\text{ m}$$

(e) 5638 cm = 5600 cm + 38 cm

$$5600\text{ cm} = 5600 \div 100\text{ m} = 56\text{ m}$$

$$5638\text{ cm} = 56\text{ m} + 38\text{ cm}$$

$$= 56\text{ m } 38\text{ cm}$$

(b) 900 cm

$$100\text{ cm} = 1\text{ m}$$

$$900\text{ cm} = 900 \div 100\text{ m} = 9\text{ m}$$

(d) 1800 cm

$$100\text{ cm} = 1\text{ m}$$

$$1800\text{ cm} = 18 \div 100\text{ m}$$

$$= 18\text{ m}$$

(f) 9861 cm = 9800 cm + 61 cm

$$9800\text{ cm} = 9800 \div 100\text{ m} = 98\text{ m}$$

$$9861\text{ cm} = 98\text{ m} + 61\text{ cm}$$

$$= 98\text{ m } 61\text{ cm}$$



<p>(g) $95421 \text{ cm} = 95400 \text{ cm} + 21 \text{ cm}$ $95400 \text{ cm} = 95400 \div 100 \text{ m}$ $= 954 \text{ m}$ $95421 \text{ cm} = 954 \text{ m} + 21 \text{ cm}$ $= 954 \text{ m } 21 \text{ cm}$</p> <p>(i) $2214 \text{ cm} = 2200 \text{ cm} + 14 \text{ cm}$ $2200 \text{ cm} = 2200 \div 100 \text{ m} = 22 \text{ m}$ $2214 \text{ cm} = 22 \text{ m} + 14 \text{ cm}$ $= 22 \text{ m } 14 \text{ cm}$</p> <p>(k) $28960 \text{ cm} = 28900 \text{ cm} + 60 \text{ cm}$ $28900 \text{ cm} = 28900 \div 100 \text{ m}$ $= 289 \text{ m}$ $28960 \text{ cm} = 289 \text{ m} + 60 \text{ cm}$ $= 289 \text{ m } 60 \text{ cm}$</p>	<p>(h) $78910 \text{ cm} = 78900 \text{ cm} + 10 \text{ cm}$ $78900 \text{ cm} = 78900 \div 100 \text{ m}$ $= 789 \text{ m}$ $78910 \text{ cm} = 789 \text{ m} + 10 \text{ cm}$ $= 789 \text{ m } 10 \text{ cm}$</p> <p>(j) $41966 \text{ cm} = 41900 \text{ cm} + 66 \text{ cm}$ $41900 \text{ cm} = 41900 \div 100 \text{ m}$ $= 419 \text{ m}$ $41966 \text{ cm} = 419 \text{ m} + 66 \text{ cm}$ $= 419 \text{ m } 66 \text{ cm}$</p> <p>(l) $10081 \text{ cm} = 10000 \text{ cm} + 81 \text{ cm}$ $10000 \text{ cm} = 10000 \div 100 \text{ m}$ $= 100 \text{ m}$ $10081 \text{ cm} = 100 \text{ m} + 81 \text{ cm}$ $= 100 \text{ m } 81 \text{ cm}$</p>
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Practice Coach - 2 !

<p>1. (a) 8 km $1 \text{ km} = 1000 \text{ m}$ $8 \text{ km} = 8 \times 1000 \text{ m} = 8000 \text{ m}$</p> <p>(c) 31 km $1 \text{ km} = 1000 \text{ m}$ $31 \text{ km} = 31 \times 1000 \text{ m}$ $= 31000 \text{ m}$</p> <p>(e) 38 km 42 m $= 38 \times 1000 \text{ m} + 42 \text{ m}$ $= 38000 \text{ m} + 42 \text{ m}$ $= 38042 \text{ m}$</p> <p>(g) 3 km 91 m $= 3 \times 1000 \text{ m} + 91 \text{ m}$ $= 3000 \text{ m} + 91 \text{ m}$ $= 3091 \text{ m}$</p> <p>(i) 92 km 29 m $= 92 \times 1000 \text{ m} + 29 \text{ m}$ $= 92000 \text{ m} + 29 \text{ m}$ $= 92029 \text{ m}$</p>	<p>(b) 21 km $1 \text{ km} = 1000 \text{ m}$ $21 \text{ km} = 21 \times 1000 \text{ m} = 21000 \text{ m}$</p> <p>(d) 169 km $1 \text{ km} = 1000 \text{ m}$ $169 \text{ km} = 169 \times 1000 \text{ m}$ $= 169000 \text{ m}$</p> <p>(f) 72 km 62 m $= 72 \times 1000 \text{ m} + 62 \text{ m}$ $= 72000 \text{ m} + 62 \text{ m}$ $= 72062 \text{ m}$</p> <p>(h) 7 km 19 m $= 7 \times 1000 \text{ m} + 19 \text{ m}$ $= 7000 \text{ m} + 19 \text{ m}$ $= 7019 \text{ m}$</p> <p>(j) 421 km 12 m $= 421 \times 1000 \text{ m} + 12 \text{ m}$ $= 421000 \text{ m} + 12 \text{ m}$ $= 421012 \text{ m}$</p>
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$$\begin{aligned}
 \text{(k)} \quad & 524 \text{ km } 38 \text{ m} \\
 & = 524 \times 1000 \text{ m} + 38 \text{ m} \\
 & = 524000 \text{ m} + 38 \text{ m} \\
 & = 524038 \text{ m}
 \end{aligned}$$

$$\begin{aligned}
 2. \quad \text{(a)} \quad & 6000 \text{ m} \\
 & 1000 \text{ m} = 1 \text{ km} \\
 & 6000 \text{ m} = 6000 \div 1000 \text{ km} \\
 & = 6 \text{ km}
 \end{aligned}$$

$$\begin{aligned}
 \text{(c)} \quad & 4000 \text{ m} \\
 & 4000 \text{ m} = 4000 \div 1000 \text{ km} \\
 & = 4 \text{ km}
 \end{aligned}$$

$$\begin{aligned}
 \text{(e)} \quad & 9068 \\
 & 1000 \text{ m} = 1 \text{ km} \\
 & 9068 \text{ m} = 9000 \text{ m} + 68 \text{ m} \\
 & 9000 \text{ m} = 9000 \div 1000 \text{ km} = 9 \text{ km} \\
 & 9068 \text{ m} = 9 \text{ km} + 68 \text{ m} \\
 & = 9 \text{ km } 68 \text{ m}
 \end{aligned}$$

$$\begin{aligned}
 \text{(g)} \quad & 1837 \text{ m} \\
 & 1000 \text{ m} = 1 \text{ km} \\
 & 1837 \text{ m} = 1000 \text{ m} + 837 \text{ m} \\
 & 1000 \text{ m} = 1000 \div 1000 \text{ km} = 1 \text{ km} \\
 & 1837 \text{ m} = 1 \text{ km} + 837 \text{ m} \\
 & = 1 \text{ km } 837 \text{ m}
 \end{aligned}$$

$$\begin{aligned}
 \text{(i)} \quad & 3140 \text{ m} \\
 & 1000 \text{ m} = 1 \text{ km} \\
 & 3140 \text{ m} = 3000 \text{ m} + 140 \text{ m} \\
 & 3000 \text{ m} = 3000 \div 1000 \text{ km} = 3 \text{ km} \\
 & 3140 \text{ m} = 3 \text{ km} + 140 \text{ m} \\
 & = 3 \text{ km } 140 \text{ m}
 \end{aligned}$$

$$\begin{aligned}
 \text{(k)} \quad & 9012 \text{ m} \\
 & 1000 \text{ m} = 1 \text{ km} \\
 & 9012 \text{ m} = 9000 \text{ m} + 12 \text{ m} \\
 & 9000 \text{ m} = 9000 \div 1000 \text{ km} = 9 \text{ km} \\
 & 9012 \text{ m} = 9 \text{ km} + 12 \text{ m} \\
 & = 9 \text{ km } 12 \text{ m}
 \end{aligned}$$

$$\begin{aligned}
 \text{(l)} \quad & 622 \text{ km } 41 \text{ m} \\
 & = 622 \times 1000 \text{ m} + 41 \text{ m} \\
 & = 622000 \text{ m} + 41 \text{ m} \\
 & = 622041 \text{ m}
 \end{aligned}$$

$$\begin{aligned}
 \text{(b)} \quad & 8000 \text{ m} \\
 & 1000 \text{ m} = 1 \text{ km} \\
 & 8000 \text{ m} = 8000 \div 1000 \text{ km} \\
 & = 8 \text{ km}
 \end{aligned}$$

$$\begin{aligned}
 \text{(d)} \quad & 7145 \text{ km} \\
 & 1000 \text{ m} = 1 \text{ km} \\
 & 7145 \text{ m} = 7000 \text{ m} + 145 \text{ m} \\
 & 7000 \text{ m} = 7000 \div 1000 \text{ km} = 7 \text{ km} \\
 & 7145 \text{ m} = 7 \text{ km} + 145 \text{ m} \\
 & = 7 \text{ km } 145 \text{ m}
 \end{aligned}$$

$$\begin{aligned}
 \text{(f)} \quad & 1563 \text{ m} \\
 & 1000 \text{ m} = 1 \text{ km} \\
 & 1563 \text{ m} = 1000 \text{ m} + 563 \text{ m} \\
 & 1000 \text{ m} = 1000 \div 1000 \text{ km} = 1 \text{ km} \\
 & 1563 \text{ m} = 1 \text{ km} + 563 \text{ m} \\
 & = 1 \text{ km } 563 \text{ m}
 \end{aligned}$$

$$\begin{aligned}
 \text{(h)} \quad & 2198 \text{ m} \\
 & 1000 \text{ m} = 1 \text{ km} \\
 & 2198 \text{ m} = 2000 \text{ m} + 198 \text{ m} \\
 & 2000 \text{ m} = 2000 \div 1000 \text{ km} = 2 \text{ km} \\
 & 2198 \text{ m} = 2 \text{ km} + 198 \text{ m} \\
 & = 2 \text{ km } 198 \text{ m}
 \end{aligned}$$

$$\begin{aligned}
 \text{(j)} \quad & 2748 \text{ m} \\
 & 1000 \text{ m} = 1 \text{ km} \\
 & 2748 \text{ m} = 2000 \text{ m} + 748 \text{ m} \\
 & 2000 \text{ m} = 2000 \div 1000 \text{ km} = 2 \text{ km} \\
 & 2748 \text{ m} = 2 \text{ km} + 748 \text{ m} \\
 & = 2 \text{ km } 748 \text{ m}
 \end{aligned}$$

$$\begin{aligned}
 \text{(l)} \quad & 5561 \text{ m} \\
 & 1000 \text{ m} = 1 \text{ km} \\
 & 5561 \text{ m} = 5000 \text{ m} + 561 \text{ m} \\
 & 5000 \text{ m} = 5000 \div 1000 \text{ km} = 5 \text{ km} \\
 & 5561 \text{ m} = 5 \text{ km} + 561 \text{ m} \\
 & = 5 \text{ km } 561 \text{ m}
 \end{aligned}$$



Practice Coach - 3 !

$$\begin{array}{r}
 \text{(a)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 27 \quad 70 \\ + 43 \quad 58 \\ \hline 71 \quad 28 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 148 \quad 60 \\ + 756 \quad 25 \\ \hline 904 \quad 86 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 32 \quad 920 \\ + 21 \quad 532 \\ \hline 54 \quad 452 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 16 \quad 950 \\ + 17 \quad 210 \\ \hline 34 \quad 160 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 50 \quad 7 \\ + 21 \quad 6 \\ \hline 72 \quad 3 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 381 \quad 74 \\ + 237 \quad 40 \\ \hline 619 \quad 14 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(g)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 13 \quad 308 \\ + 10 \quad 207 \\ \hline 23 \quad 515 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(h)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 21 \quad 355 \\ + 65 \quad 461 \\ \hline 86 \quad 816 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{2. (a)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 12 \quad 950 \\ - 6 \quad 750 \\ \hline 6 \quad 200 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 94 \quad 08 \\ - 48 \quad 72 \\ \hline 45 \quad 36 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 232 \quad 85 \\ - 145 \quad 65 \\ \hline 87 \quad 20 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 781 \quad 60 \\ - 94 \quad 98 \\ \hline 686 \quad 62 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 68 \quad 189 \\ - 42 \quad 423 \\ \hline 25 \quad 766 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 9 \quad 306 \\ - 4 \quad 283 \\ \hline 5 \quad 023 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(g)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 79 \quad 563 \\ - 37 \quad 654 \\ \hline 41 \quad 909 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(h)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 86 \quad 981 \\ - 24 \quad 324 \\ \hline 62 \quad 657 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(i)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 89 \quad 739 \\ - 53 \quad 989 \\ \hline 35 \quad 750 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(j)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 4 \quad 959 \\ - 2 \quad 553 \\ \hline 2 \quad 406 \end{array}
 \end{array}$$

3. The height of one coconut tree = 8 m 92 m

The height of another coconut tree = 15 m 85 cm

The difference in their height = 15 m 85 cm - 8 m 92 cm

$$\begin{array}{r}
 \begin{array}{r} \text{m} \quad \text{cm} \\ 15 \quad 85 \\ + 8 \quad 92 \\ \hline 6 \quad 93 \end{array} \\
 = 6 \text{ m } 93 \text{ cm}
 \end{array}$$

5. Sanya uses cloth to make a dress = 9 m 80 cm

Vaishali uses cloth to make her dress = 7 m 20 cm

The total length of cloth needed = 9 m 80 cm + 7 m 20 cm

$$\begin{array}{r}
 \begin{array}{r} \text{m} \quad \text{cm} \\ 9 \quad 80 \\ + 7 \quad 20 \\ \hline 80 \quad 00 \end{array} \\
 = 80 \text{ m}
 \end{array}$$

Thus, the total length of cloth needed is 80 m.

6. A shopkeeper purchased blue ribbon = 116 m 80 cm

He purchased red ribbon = 223 m 75 cm

He purchased the ribbon altogether

$$\begin{array}{r}
 \begin{array}{r} \text{m} \quad \text{cm} \\ 116 \quad 80 \\ + 223 \quad 75 \\ \hline 340 \quad 55 \end{array} \\
 = 116 \text{ m } 80 \text{ cm} + 223 \text{ m } 75 \text{ cm} \\
 = 340 \text{ m } 55 \text{ cm}
 \end{array}$$

Thus, 340 m 55 cm ribbon he purchased altogether.



Practice Coach - 4 !

1. (a) 5 kg

$$1 \text{ kg} = 1000 \text{ g}$$

$$5 \text{ kg} = 5 \times 1000 \text{ g} = 5000 \text{ g}$$

(c) 3 kg

$$1 \text{ kg} = 1000 \text{ g}$$

$$3 \text{ kg} = 3 \times 1000 \text{ g} = 3000 \text{ g}$$

(e) 7 kg 149 g = 7 kg + 149 g

$$7 \text{ kg} = 7 \times 1000 \text{ g} = 7000 \text{ g}$$

$$7 \text{ kg } 149 \text{ g} = 7000 \text{ g} + 149 \text{ g} \\ = 7149 \text{ g}$$

(g) 4 kg 525 g = 4 kg + 525 g

$$4 \text{ kg} = 4 \times 1000 \text{ g} = 4000 \text{ g}$$

$$4 \text{ kg } 525 \text{ g} = 4000 \text{ g} + 525 \text{ g} \\ = 4525 \text{ g}$$

(i) 6 kg 665 g = 6 kg + 665 g

$$6 \text{ kg} = 6 \times 1000 \text{ g} = 6000 \text{ g}$$

$$6 \text{ kg } 665 \text{ g} = 6000 \text{ g} + 665 \text{ g} \\ = 6665 \text{ g}$$

2. (a) 2293 g

$$1000 \text{ g} = 1 \text{ kg}$$

$$2293 \text{ g} = 2000 \text{ g} + 293 \text{ g}$$

$$2000 \text{ g} = 2000 \div 1000 = 2 \text{ kg}$$

$$2293 \text{ g} = 2 \text{ kg} + 293 \text{ g} \\ = 2 \text{ kg } 293 \text{ g}$$

(c) 7585 g

$$1000 = 1 \text{ kg}$$

$$7585 \text{ g} = 7000 \text{ g} + 585 \text{ g}$$

$$7000 \text{ g} = 7000 \div 1000 \text{ kg} = 7 \text{ kg}$$

$$7585 \text{ g} = 7 \text{ kg} + 585 \text{ g} \\ = 7 \text{ kg } 585 \text{ g}$$

(e) 12000 g

$$1000 \text{ g} = 1 \text{ kg}$$

$$12000 \text{ g} = 12000 \div 1000 \text{ kg} \\ = 12 \text{ kg}$$

(b) 10 kg

$$1 \text{ kg} = 1000 \text{ g}$$

$$10 \text{ kg} = 10 \times 1000 \text{ g} = 10000 \text{ g}$$

(d) 12 kg

$$1 \text{ kg} = 1000 \text{ g}$$

$$12 \text{ kg} = 12 \times 1000 \text{ g} = 12000 \text{ g}$$

(f) 12 kg 741 g = 12 kg + 141 g

$$12 \text{ kg} = 12 \times 1000 \text{ g} = 12000 \text{ g}$$

$$12 \text{ kg } 741 \text{ g} = 12000 \text{ g} + 741 \text{ g} \\ = 12741 \text{ g}$$

(h) 68 kg 902 g = 68 kg + 902 g

$$68 \text{ kg} = 68 \times 1000 \text{ g} = 68000 \text{ g}$$

$$68 \text{ kg } 902 \text{ g} = 68000 \text{ g} + 902 \text{ g} \\ = 68902 \text{ g}$$

(j) 93 kg 356 g = 93 kg + 356 g

$$93 \text{ kg} = 93 \times 1000 \text{ g} = 93000 \text{ g}$$

$$93 \text{ kg } 356 \text{ g} = 93000 \text{ g} + 356 \text{ g} \\ = 93356 \text{ g}$$

(b) 6509 g

$$1000 \text{ g} = 1 \text{ kg}$$

$$6509 \text{ g} = 6000 \text{ g} + 509 \text{ g}$$

$$6000 \text{ g} = 6000 \div 1000 \text{ kg} = 6 \text{ kg}$$

$$6509 \text{ g} = 6 \text{ kg} + 509 \text{ g} \\ = 6 \text{ kg } 509 \text{ g}$$

(d) 89874 g

$$1000 \text{ g} = 1 \text{ kg}$$

$$89874 \text{ g} = 89000 \text{ g} + 874 \text{ g}$$

$$89000 \text{ g} = 89000 \div 1000 \text{ kg} = 89 \text{ kg}$$

$$89874 \text{ g} = 89 \text{ kg} + 874 \text{ g} \\ = 89 \text{ kg } 874 \text{ g}$$

(f) 71820 g

$$1000 \text{ g} = 1 \text{ kg}$$

$$71820 \text{ g} = 71000 \text{ g} + 820 \text{ g}$$

$$71000 \text{ g} = 71000 \div 1000 \text{ kg} = 71 \text{ kg}$$

$$71820 \text{ g} = 71 \text{ kg} + 820 \text{ g} \\ = 71 \text{ kg } 820 \text{ g}$$



(g) 20925 g

$$1000 \text{ g} = 1 \text{ kg}$$

$$20925 \text{ g} = 20000 \text{ g} + 925 \text{ g}$$

$$20000 \text{ g} = 20000 \div 1000 \text{ kg} = 20 \text{ kg} \quad 6000 \text{ g} = 6000 \div 1000 \text{ kg} = 6 \text{ kg}$$

$$20925 \text{ g} = 20 \text{ kg} + 925 \text{ g}$$

$$= 20 \text{ kg } 925 \text{ g}$$

(h) 6889 g

$$1000 \text{ g} = 1 \text{ kg}$$

$$6889 \text{ g} = 6000 \text{ g} + 889 \text{ g}$$

$$6000 \text{ g} = 6000 \div 1000 \text{ kg} = 6 \text{ kg}$$

$$6889 \text{ g} = 6 \text{ kg} + 889 \text{ g}$$

$$= 6 \text{ kg } 889 \text{ g}$$

Practice Coach - 5 !

1. (a)

kg	g
4	350
+ 3	825
8	175

(b)

kg	g
8	243
+ 2	472
10	715

(c)

kg	g
12	694
+ 8	821
21	515

(d)

kg	g
3	405
+ 7	615
11	020

(e)

kg	g
36	580
+ 7	281
43	861

(f)

kg	g
9	250
+ 8	615
17	865

(g)

kg	g
32	920
+ 21	532
54	452

(h)

kg	g
16	950
+ 17	210
34	160

2. (a)

kg	g
5	350
2	180
+ 6	110
13	640

(b)

kg	g
10	500
8	243
+ 775	
19	518

(c)

kg	g
7	408
4	270
+ 820	
12	498

(d)

kg	g
9	250
8	750
+ 9 000	
27	000

3. (a)

kg	g
785	956
- 562	350
223	606

(b)

kg	g
620	350
- 410	210
210	140

(c)

kg	g
32	495
- 15	770
16	725

(d)

kg	g
26	800
- 12	910
13	890

(e)

kg	g
59	290
- 41	210
18	080

(f)

kg	g
10	808
- 7	908
2	892

(g)

kg	g
15	180
- 10	100
5	080

(h)

kg	g
49	830
- 30	750
19	080

4. (a)

kg	g
72	246
- 18	979
53	267

(b)

kg	g
66	392
- 56	432
9	960

(c)

kg	g
50	850
- 20	750
30	100

(d)

kg	g
20	320
- 16	250
4	070



Practice Coach - 6 !

1. (a) 10 l

$$\begin{aligned}1 \text{ l} &= 1000 \text{ ml} \\10 \text{ l} &= 10 \times 1000 \text{ ml} \\&= 10000 \text{ ml}\end{aligned}$$

(c) 54 l

$$\begin{aligned}1 \text{ l} &= 1000 \text{ ml} \\54 \text{ l} &= 54 \times 1000 \text{ ml} \\&= 54000 \text{ ml}\end{aligned}$$

(e) 44 l 839 ml = 44 l + 839 ml
= (44 × 1000 ml) + 839 ml
= 44000 + 839 ml
= 44839 ml

(g) 30 l 628 ml = 30 l + 628 ml
= (30 × 1000 ml) + 628 ml
= 30000 + 628 ml
= 30628 ml

(i) 56 l 670 ml = 56 l + 670 ml
= (56 × 1000 ml) + 670 ml
= 56000 ml + 670 ml
= 56670 ml

2. (a) 26000 ml

$$\begin{aligned}1000 \text{ ml} &= 1 \text{ l} \\26000 \text{ ml} &= 26000 \div 1000 \text{ l} \\&= 26 \text{ l}\end{aligned}$$

(c) 31000 ml

$$\begin{aligned}1000 \text{ ml} &= 1 \text{ l} \\31000 \text{ ml} &= 31000 \div 1000 \text{ l} \\&= 31 \text{ l}\end{aligned}$$

(e) 23567 ml

$$\begin{aligned}1000 \text{ ml} &= 1 \text{ l} \\23567 \text{ ml} &= 23000 \text{ ml} + 567 \text{ ml} \\23000 \text{ ml} &= 23000 \div 1000 \text{ l} = 23 \text{ l} \\23567 &= 23 \text{ l} + 567 \text{ ml} = 23 \text{ l } 567 \text{ ml}\end{aligned}$$

(g) 19000 ml

$$\begin{aligned}1000 \text{ ml} &= 1 \text{ l} \\19000 \text{ ml} &= 19000 \div 1000 \\&= 19 \text{ l}\end{aligned}$$

(b) 22 l

$$\begin{aligned}1 \text{ l} &= 1000 \text{ ml} \\22 \text{ l} &= 22 \times 1000 \text{ ml} \\&= 22000 \text{ ml}\end{aligned}$$

(d) 1 l 722 ml = 1 l + 722 ml

$$\begin{aligned}&= (1 \times 1000 \text{ ml}) + 722 \text{ ml} \\&= 1000 \text{ ml} + 722 \text{ ml} \\&= 1722 \text{ ml}\end{aligned}$$

(f) 4 l 155 ml = 4 l + 155 ml

$$\begin{aligned}&= (4 \times 1000 \text{ ml}) + 155 \text{ ml} \\&= 4000 \text{ ml} + 155 \text{ ml} \\&= 4155 \text{ ml}\end{aligned}$$

(h) 49 l 109 ml = 49 l + 109 ml

$$\begin{aligned}&= (49 \times 1000 \text{ ml}) + 109 \text{ ml} \\&= 49000 \text{ ml} + 109 \text{ ml} \\&= 49109 \text{ ml}\end{aligned}$$

(j) 53 l 635 ml = 53 l + 635 ml

$$\begin{aligned}&= (53 \times 1000 \text{ ml}) + 635 \text{ ml} \\&= 53000 \text{ ml} + 635 \text{ ml} \\&= 53635 \text{ ml}\end{aligned}$$

(b) 12000 ml

$$\begin{aligned}1000 \text{ ml} &= 1 \text{ l} \\12000 \text{ ml} &= 12000 \div 1000 \text{ l} \\&= 12 \text{ l}\end{aligned}$$

(d) 36000 ml

$$\begin{aligned}1000 \text{ ml} &= 1 \text{ l} \\36000 \text{ ml} &= 36000 \div 1000 \text{ l} \\&= 36 \text{ l} \\&= 1004 \text{ ml}\end{aligned}$$

(f) 1004 ml = 1 l

$$\begin{aligned}1004 \text{ ml} &= 1000 \text{ ml} + 4 \text{ ml} \\1000 \text{ ml} &= 1000 \div 1000 \text{ l} = 1 \text{ l} \\1004 &= 1 \text{ l} + 4 \text{ ml}\end{aligned}$$

(h) 6606 ml

$$\begin{aligned}1000 \text{ ml} &= 1 \text{ l} \\6606 \text{ ml} &= 6000 \text{ ml} + 606 \text{ ml} \\6000 \text{ ml} &= 6000 \div 1000 \text{ l} = 6 \text{ l} \\6606 \text{ ml} &= 6 \text{ l} + 606 \text{ ml} \\&= 6 \text{ l } 606 \text{ ml}\end{aligned}$$



$$\begin{aligned} \text{(i) } 50270 \text{ ml} \\ 1000 \text{ ml} &= 1 \text{ l} \\ 50270 \text{ ml} &= 50000 \text{ ml} + 270 \text{ ml} \\ 50000 \text{ ml} &= 50000 \div 1000 \text{ l} = 50 \text{ l} \\ 50270 \text{ ml} &= 50 \text{ l} + 270 \text{ ml} \\ &= 50 \text{ l } 270 \text{ ml} \end{aligned}$$

$$\begin{aligned} \text{(j) } 43025 \text{ ml} \\ 1000 \text{ ml} &= 1 \text{ l} \\ 43025 \text{ ml} &= 43000 \text{ ml} + 025 \text{ ml} \\ 43000 \text{ ml} &= 43000 \div 1000 = 43 \text{ l} \\ 43025 \text{ ml} &= 43 \text{ l} + 025 \text{ ml} \\ &= 43 \text{ l } 025 \text{ ml} \end{aligned}$$

Practice Coach - 7 !

$$\begin{array}{l} \text{1. (a) } \begin{array}{r} 1 \text{ ml} \\ 12 \text{ 950} \\ + 6 \text{ 750} \\ \hline 19 \text{ 700} \end{array} \end{array}$$

$$\begin{array}{l} \text{(b) } \begin{array}{r} 1 \text{ ml} \\ 36 \text{ 456} \\ + 25 \text{ 550} \\ \hline 62 \text{ 006} \end{array} \end{array}$$

$$\begin{array}{l} \text{(c) } \begin{array}{r} 1 \text{ ml} \\ 179 \text{ 244} \\ + 98 \text{ 798} \\ \hline 278 \text{ 042} \end{array} \end{array}$$

$$\begin{array}{l} \text{(d) } \begin{array}{r} 1 \text{ ml} \\ 12 \text{ 050} \\ + 20 \text{ 170} \\ \hline 32 \text{ 220} \end{array} \end{array}$$

$$\begin{array}{l} \text{(e) } \begin{array}{r} 1 \text{ ml} \\ 35 \text{ 650} \\ + 16 \text{ 900} \\ \hline 52 \text{ 550} \end{array} \end{array}$$

$$\begin{array}{l} \text{(f) } \begin{array}{r} 1 \text{ ml} \\ 19 \text{ 900} \\ + 5 \text{ 170} \\ \hline 25 \text{ 070} \end{array} \end{array}$$

$$\begin{array}{l} \text{(g) } \begin{array}{r} 1 \text{ ml} \\ 49 \text{ 920} \\ + 10 \text{ 532} \\ \hline 60 \text{ 452} \end{array} \end{array}$$

$$\begin{array}{l} \text{(h) } \begin{array}{r} 1 \text{ ml} \\ 16 \text{ 840} \\ + 17 \text{ 150} \\ \hline 33 \text{ 990} \end{array} \end{array}$$

$$\begin{array}{l} \text{2. (a) } \begin{array}{r} 1 \text{ ml} \\ 7 \text{ 750} \\ 8 \text{ 700} \\ + 6 \text{ 100} \\ \hline 22 \text{ 550} \end{array} \end{array}$$

$$\begin{array}{l} \text{(b) } \begin{array}{r} 1 \text{ ml} \\ 12 \text{ 110} \\ 2 \text{ 405} \\ + 18 \text{ 167} \\ \hline 32 \text{ 682} \end{array} \end{array}$$

$$\begin{array}{l} \text{(c) } \begin{array}{r} 1 \text{ ml} \\ 20 \text{ 875} \\ 21 \text{ 101} \\ + 46 \text{ 074} \\ \hline 88 \text{ 050} \end{array} \end{array}$$

$$\begin{array}{l} \text{3. (a) } \begin{array}{r} 1 \text{ ml} \\ 20 \text{ 875} \\ - 15 \text{ 650} \\ \hline 5 \text{ 225} \end{array} \end{array}$$

$$\begin{array}{l} \text{(b) } \begin{array}{r} 1 \text{ ml} \\ 256 \text{ 190} \\ - 101 \text{ 90} \\ \hline 154 \text{ 290} \end{array} \end{array}$$

$$\begin{array}{l} \text{(c) } \begin{array}{r} 1 \text{ ml} \\ 462 \text{ 405} \\ - 362 \text{ 342} \\ \hline 100 \text{ 063} \end{array} \end{array}$$

$$\begin{array}{l} \text{(d) } \begin{array}{r} 1 \text{ ml} \\ 68 \text{ 245} \\ - 34 \text{ 345} \\ \hline 33 \text{ 900} \end{array} \end{array}$$

$$\begin{array}{l} \text{(e) } \begin{array}{r} 1 \text{ ml} \\ 95 \text{ 392} \\ - 36 \text{ 396} \\ \hline 58 \text{ 996} \end{array} \end{array}$$

$$\begin{array}{l} \text{(f) } \begin{array}{r} 1 \text{ ml} \\ 86 \text{ 459} \\ - 47 \text{ 323} \\ \hline 39 \text{ 136} \end{array} \end{array}$$

$$\begin{array}{l} \text{(g) } \begin{array}{r} 1 \text{ ml} \\ 34 \text{ 930} \\ - 12 \text{ 320} \\ \hline 22 \text{ 610} \end{array} \end{array}$$

$$\begin{array}{l} \text{(h) } \begin{array}{r} 1 \text{ ml} \\ 18 \text{ 981} \\ - 11 \text{ 250} \\ \hline 7 \text{ 731} \end{array} \end{array}$$

$$\begin{array}{l} \text{4. (a) } \begin{array}{r} 1 \text{ ml} \\ 79 \text{ 932} \\ - 38 \text{ 394} \\ \hline 41 \text{ 538} \end{array} \end{array}$$

$$\begin{array}{l} \text{(b) } \begin{array}{r} 1 \text{ ml} \\ 83 \text{ 837} \\ - 13 \text{ 261} \\ \hline 70 \text{ 576} \end{array} \end{array}$$

$$\begin{array}{l} \text{(c) } \begin{array}{r} 1 \text{ ml} \\ 97 \text{ 924} \\ - 21 \text{ 954} \\ \hline 75 \text{ 970} \end{array} \end{array}$$

$$\begin{array}{l} \text{(d) } \begin{array}{r} 1 \text{ ml} \\ 97 \text{ 926} \\ - 62 \text{ 275} \\ \hline 35 \text{ 651} \end{array} \end{array}$$

Mental Maths

1. metre 2. multiply, 100 3. kilometre 4. 81 m 39 cm 5. 1,00,000 cm 6. 1000 ml 7. 1000 g 8. gram 9. 1 10. litree

Multiple Choice Questions (MCQs) :

1. (a) 1000 m 2. (a) 74 mm 3. (a) 30000 4. (b) 500 g 5. (c) 3000 ml



Practice Coach - 1 !

1. (a) Perimeter of square = $4 \times \text{sides}$
 $= 4 \times 10 \text{ cm} = 40 \text{ cm}$
- (b) Perimeter of rectangle = $2(1 + b)$
 $= 2(4 \text{ cm} + 12 \text{ cm})$
 $= 8 \text{ cm} + 24 \text{ cm}$
 $= 32 \text{ cm}$
- (c) Perimeter of triangle = sum of all sides
 $= AB + BC + AC$
 $= 13 \text{ cm} + 7 \text{ cm} + 20 \text{ cm}$
 $= 40 \text{ cm}$
- (d) Perimeter of quadrilateral = sum of all sides
 $= AB + BC + CD + AD$
 $= 4 \text{ cm} + 10 \text{ cm} + 4 \text{ cm} + 12 \text{ cm}$
 $= 30 \text{ cm}$
- (e) Perimeter of quadrilateral = sum of all sides
 $= AB + BC + CD + AD$
 $= 8 \text{ cm} + 10 \text{ cm} + 5 \text{ cm} + 4 \text{ cm}$
 $= 37 \text{ cm}$
- (f) Perimeter of square = $4 \times \text{sides}$
 $= 4 \times 5 \text{ cm} = 20 \text{ cm}$
- (g) Perimeter of other shape = sum of all sides
 $= 8 \text{ cm} + 1 \text{ cm} + 1 \text{ cm} + 8 \text{ cm} + 1 \text{ cm} + 1 \text{ cm} + 8 \text{ cm}$
 $+ 1 \text{ cm} + 1 \text{ cm} + 8 \text{ cm} + 1 \text{ cm} + 1 \text{ cm}$
 $= 40 \text{ cm}$
- (h) Perimeter of shape = sum of all sides
 $= 2 \text{ cm} + 6 \text{ cm} + 6 \text{ cm} + 1 \text{ cm} + 8 \text{ cm} + 7 \text{ cm}$
 $= 32 \text{ cm}$
- (i) Perimeter of shape = sum of all sides
 $= 6 \text{ cm} + 1 \text{ cm} + 4 \text{ cm} + 2 \text{ cm} + 1 \text{ cm} + 2 \text{ cm}$
 $+ 4 \text{ cm} + 2 \text{ cm} + 7 \text{ cm} + 10 \text{ cm}$
 $= 39 \text{ cm}$
- (j) Perimeter of quadrilateral = sum of all sides
 $= 3 \text{ cm} + 9 \text{ cm} + 12 \text{ cm} + 6 \text{ cm} + 13 \text{ cm}$
 $= 43 \text{ cm}$
2. (a) Perimeter of square = $4 \times \text{sides}$
 $= 4 \times 12 \text{ cm} = 48 \text{ cm}$



(b) Perimeter of square = $4 \times \text{sides}$
= $4 \times 2 \text{ m} = 8 \text{ cm}$

(c) Perimeter of square = $4 \times \text{sides}$
= $4 \times 30 \text{ cm}$
= 120 cm

(d) Perimeter of square = $4 \times \text{sides}$
= $4 \times 28 \text{ m}$
= 112 m

3. (a) Perimeter of Rectangle = $2(l+b)$
= $2(2 \text{ cm} + 4 \text{ cm})$
= $4 \text{ cm} + 8 \text{ cm}$
= 12 cm

(b) Perimeter of Rectangle = $2(l + b)$
= $2(8 \text{ cm} + 8 \text{ cm})$
= $16 \text{ cm} + 16 \text{ cm}$
= 32 cm

(c) Perimeter of Rectangle = $2(l+b)$
= $2(9 \text{ m} + 12 \text{ m})$
= $18 \text{ m} + 24 \text{ m}$
= 42 m

(d) Perimeter of Rectangle = $2(l+b)$
= $2(20 \text{ m} + 18 \text{ m})$
= $40 \text{ m} + 36 \text{ m}$
= 76 m

4. Side of a garden = 32 cm
Perimeter of garden = $4 \times 32 \text{ cm}$
= 128 cm

Thus, 128 cm wire needed for fencing around a garden.

5. The length of a rectangular field = 200 m
The breadth of a rectangular field = 48 cm
Perimeter of rectangular field = $2(l+b)$
= $2(200 \text{ cm} + 48 \text{ cm})$
= $400 \text{ cm} + 96 \text{ cm}$
= 496 cm

The total distance covered by them in 2 rounds = 496×2
= 992 cm

Thus, the total distance covered by students of school is 992 cm .

Mental Maths

1. $1 \text{ m} = 100 \text{ cm}$ 2. $1 \text{ km} = 1000 \text{ m}$ 3. $1 \text{ l} = 1000 \text{ ml}$ 4. $1 \text{ kg} = 1000 \text{ g}$
5. $5 \text{ m} = 500 \text{ cm}$ 6. $8 \text{ l} = 8000 \text{ ml}$ 7. perimeter 9. area 10. 4 mm

Multiple Choice Questions (MCQs) :

1. (a) square 2. (c) 255 m 3. (c) sq units of length 4. perimeter 5. (a) 1 mm^2



Chapter

10

Patterns

Practice Coach - 1 !

1. (a) $4 + 5 + 6 = 15$, $5 + 6 + 7 = 18$, $6 + 7 + 8 = 21$, $7 + 8 + 9 = 24$ (b) 10, 1 (c) 2222, 22222 (d) 60, 75 (e) NO6, OP5, (f) J, L **2.** Do yourself
3. Do yourself

Practice Coach - 2 !

1. (a)

 (b)

 (c)

○	○
○	○

○	○
○	○

○	○


(d) 62, 60, 58 (e) AB, AA, AB (f) 200, 220, 240

Mental Maths

1. 4 times **2.** 3 times **3.** (a) five (b) two

Multiple Choice Questions (MCQs) :

1. (a)

2. (b) 480 **3.** (b) $\downarrow\uparrow$ **4.** (a)  **5.** (c)

Chapter

11

Time

Practice Coach - 1 !

1. (b) 4 : 10 (c) 5 : 50 (d) 6 : 35 (e) 7 : 30 (f) 8 : 20 (g) 11 : 15 (h) 1 : 35
2. (a) Quarter to 5 (b) 10 minutes past 5 (c) Quarter past 6 (d) 35 minutes past 4 (e) Half past 9 (f) Half past 12 **3.** Do yourself
4. (a) Friday (b) Monday **5.**

Practice Coach - 2 !

1. (a) 7 : 20 p.m. (b) 2 : 35 p.m. (c) 12 : 30 a.m. (d) 1 : 00 p.m. (e) 8 : 15 p.m. (f) 10 : 35 a.m. **2.** (a) 10 : 30 a.m. (b) 2 : 00 a.m. (c) 1 : 00 p.m. (d) 1 : 00 p.m. (e) 1 : 15 a.m.
3. (a) 1 hour before 12 : 20 a.m. \Rightarrow (2) 11 : 20 p.m.
(b) 2 hour after 10 : 30 a.m. \Rightarrow (6) 12 : 30 p.m.
(c) 10 hours after 6 : 30 p.m. \Rightarrow (3) 4 : 30 a.m.
(d) 1 hour before 9 : 00 a.m. \Rightarrow (5) 8 : 00 a.m.
(e) 3 hours after 8 : 30 a.m. \Rightarrow (4) 11 : 30 a.m.
(f) 4 hours after 8 p.m. \Rightarrow (1) 12 midnight



Practice Coach - 3 !

1. (a) 0945 hrs (b) 0900 hrs (c) 2330 hrs (d) 1130 hrs (e) 0715 hrs (f) 1430 hrs
2. (a) 2 hrs 20 min (b) 9 hrs 12 min (c) 3 hrs (d) 5 hrs 20 min (e) 2 hrs 20 min
3. (a) 0730 hrs (b) 1230 hrs (c) 24 hrs (d) 1430 hrs (e) 0930 hrs

Practice Coach - 4 !

1. (a) 43 days (b) 88 days (c) 57 days (d) 62 days (e) 71 days
2. (a) 2 : 49 (b) 5 : 12 (c) 12 : 44 (d) 9 : 28 (e) 8 : 17 (f) 1 : 32 (g) 2 : 32 (h) 9 : 52
3. Do yourself

Practice Coach - 5 !

1. (a) No (b) No (c) Yes (d) Yes (e) Yes
2. (a), (b)

Mental Maths

1. Monday 2. 5 : 30 3. Tuesday 4. Sunday 5. Sunday 6. 366 days
7. 3 : 45 8. 7 : 30 9. 3 : 05 10. 60

Multiple Choice Questions (MCQs) :

1. (b) 9 : 30 a.m. 2. (b) 11 : 30 p.m. 3. (a) 1040 hours 4. (c) 4 5. (c) 1200

Chapter

12

Money

Practice Coach - 1 !

1. (a) ₹ 729.95 = ₹ 729 + 95 p
₹ 1 = 100 p
₹ 729 = 729 × 100 p = 72900p
₹ 729.95 = 72900 p + 95 p
= 72995 p
- (b) ₹ 165.45 = ₹ 165 + 45 p
₹ 165 = 165 × 100 p = 16500 p
₹ 165.45 = 16500 p + 45 p
= 16545 p
- (c) ₹ 862.64 = ₹ 862 + 64 p
₹ 862 = 862 × 100 p = 86200 p
₹ 862.64 = 86200 p + 64 p
= 86264 p



$$\begin{aligned} \text{(d) } ₹ 224.68 &= ₹ 224 + 68 \text{ p} \\ ₹ 224 &= 224 \times 100 \text{ p} = 22400 \text{ p} \\ ₹ 224.68 &= 22400 \text{ p} + 68 \text{ p} \\ &= 22468 \text{ p} \end{aligned}$$

$$\begin{aligned} \text{(e) } ₹ 259.32 &= ₹ 259 + 32 \text{ p} \\ ₹ 259 &= 259 \times 100 \text{ p} = 25900 \text{ p} \\ ₹ 259.32 &= 25900 \text{ p} + 32 \text{ p} \\ &= 25932 \text{ p} \end{aligned}$$

$$\begin{aligned} \text{(f) } ₹ 317.69 &= ₹ 317 + 69 \text{ p} \\ ₹ 317 &= 317 \times 100 \text{ p} = 31700 \text{ p} \\ ₹ 317.69 &= 31700 \text{ p} + 69 \text{ p} \\ &= 31769 \text{ p} \end{aligned}$$

$$\begin{aligned} \text{2. (a) } 24038 \text{ p} \\ 100 \text{ p} &= ₹ 1 \\ 24038 \text{ p} &= 24000 \text{ p} + 38 \text{ p} \\ 24000 \text{ p} &= 24000 \div 100 \text{ p} = ₹ 240 \\ 24038 \text{ p} &= ₹ 240 + 38 \text{ p} \\ &= ₹ 240.38 \end{aligned}$$

$$\begin{aligned} \text{(b) } 98986 \text{ p} &= 98900 \text{ p} + 86 \text{ p} \\ 98900 \text{ p} &= 98900 \div 100 ₹ = ₹ 989 \\ 98986 \text{ p} &= ₹ 989 + 86 \text{ p} \\ &= ₹ 989.86 \end{aligned}$$

$$\begin{aligned} \text{(c) } 86729 \text{ p} &= 86700 \text{ p} + 29 \text{ p} \\ 86700 \text{ p} &= 86700 \div 100 ₹ = 867 \\ 86729 &= ₹ 867 + 29 \text{ p} \\ &= ₹ 867.29 \end{aligned}$$

$$\begin{aligned} \text{(d) } 16930 \text{ p} &= 16900 \text{ p} + 30 \text{ p} \\ 16900 \text{ p} &= 16900 \div 100 \text{ p} = ₹ 169 \\ 16930 \text{ p} &= ₹ 169 + 30 \text{ p} \\ &= ₹ 169.30 \end{aligned}$$

$$\begin{aligned} \text{(e) } 43490 \text{ p} &= 43400 \text{ p} + 90 \text{ p} \\ 43400 \text{ p} &= 43400 \div 100 ₹ = ₹ 434 \\ 43490 \text{ p} &= ₹ 434 + 90 \text{ p} \\ &= ₹ 434.90 \end{aligned}$$

$$\begin{aligned} \text{(f) } 73295 \text{ p} &= 73200 \text{ p} + 95 \text{ p} \\ 73200 \text{ p} &= 73200 ₹ \div 100 ₹ = ₹ 732 \\ 73295 \text{ p} &= ₹ 732 + 95 \text{ p} \\ &= ₹ 732.95 \end{aligned}$$



Practice Coach - 2 !

1. (a) ₹ 547 . 38 (b) ₹ 239 . 74 (c) ₹ 345 . 26 (d) ₹ 547 . 38
+ ₹ 681 . 46 + ₹ 241 . 57 ₹ 259 . 53 ₹ 136 . 61
 $\boxed{\text{₹ } 1228 . 84}$ $\boxed{\text{₹ } 481 . 31}$ + ₹ 268 . 59 + ₹ 355 . 59
 $\boxed{\text{₹ } 873 . 38}$ $\boxed{\text{₹ } 1039 . 58}$

(e) ₹ 451 . 61 (f) ₹ 101 . 60
+ ₹ 121 . 16 + ₹ 97 . 12
 $\boxed{\text{₹ } 572 . 77}$ $\boxed{\text{₹ } 198 . 72}$

2. (a) ₹ 663 . 24 (b) ₹ 754 . 62 (c) ₹ 436 . 79
- ₹ 430 . 46 - ₹ 334 . 81 - ₹ 356 . 74
 $\boxed{\text{₹ } 232 . 78}$ $\boxed{\text{₹ } 419 . 81}$ $\boxed{\text{₹ } 80 . 05}$

(d) ₹ 866 . 95 (e) ₹ 543 . 79 (f) ₹ 637 . 25
- ₹ 520 . 49 - ₹ 132 . 94 - ₹ 244 . 57
 $\boxed{\text{₹ } 346 . 46}$ $\boxed{\text{₹ } 410 . 85}$ $\boxed{\text{₹ } 392 . 68}$

3. The sum of ₹ 432.75 and ₹ 234.57 = ₹ 432 . 75
+ ₹ 234 . 57
 $\boxed{\text{₹ } 667 . 32}$

Subtract ₹ 500.50 from ₹ 667.32

₹ 667 . 32
- ₹ 500 . 50
 $\boxed{\text{₹ } 166 . 82}$

4. Add the following :

₹ 234 . 41
₹ 263 . 74
+ ₹ 125 . 33
 $\boxed{\text{₹ } 623 . 48}$

5. The sum of

₹ 441 . 64
+ ₹ 273 . 57
 $\boxed{\text{₹ } 715 . 21}$

Subtract ₹ 463.84 from ₹ 715.21

₹ 715 . 21
- ₹ 463 . 84
 $\boxed{\text{₹ } 251 . 37}$



Practice Coach - 3 !

$$\begin{array}{r} 1. \text{ (a) } ₹ 121.60 \\ \quad \times 8 \\ \hline ₹ 972.80 \end{array}$$

$$\begin{array}{r} \text{(d) } ₹ 14.20 \\ \quad \times 12 \\ \hline 2840 \\ 14200 \\ \hline ₹ 170.40 \end{array}$$

$$\begin{array}{r} \text{(g) } ₹ 71.8 \\ \quad \times 13 \\ \hline 2154 \\ 7180 \\ \hline ₹ 933.4 \end{array}$$

$$\begin{array}{r} \text{(j) } ₹ 48.10 \\ \quad \times 4 \\ \hline ₹ 192.40 \end{array}$$

$$\begin{array}{r} \text{(b) } ₹ 281.64 \\ \quad \times 2 \\ \hline ₹ 563.28 \end{array}$$

$$\begin{array}{r} \text{(e) } ₹ 28.50 \\ \quad \times 6 \\ \hline ₹ 171.00 \end{array}$$

$$\begin{array}{r} \text{(h) } ₹ 14.05 \\ \quad \times 12 \\ \hline 2810 \\ 14050 \\ \hline ₹ 168.60 \end{array}$$

$$\begin{array}{r} \text{(c) } ₹ 85.91 \\ \quad \times 4 \\ \hline ₹ 343.64 \end{array}$$

$$\begin{array}{r} \text{(f) } ₹ 17.62 \\ \quad \times 10 \\ \hline 0000 \\ 17620 \\ \hline ₹ 176.20 \end{array}$$

$$\begin{array}{r} \text{(i) } ₹ 21.87 \\ \quad \times 16 \\ \hline 13122 \\ 21870 \\ \hline ₹ 349.92 \end{array}$$

2. Subtract :-

$$\begin{array}{r} ₹ 944.34 \\ - ₹ 923.94 \\ \hline ₹ 20.40 \end{array}$$

3. Add :-

$$\begin{array}{r} ₹ 236.94 \\ + ₹ 346.41 \\ \hline ₹ 610.35 \end{array}$$

Multiply :-

$$\begin{array}{r} ₹ 610.35 \\ \quad \times 2 \\ \hline ₹ 1220.70 \end{array}$$

Multiply :-

$$\begin{array}{r} ₹ 20.40 \\ \quad \times 18 \\ \hline 16320 \\ 20400 \\ \hline ₹ 367.20 \end{array}$$

4. (a) ₹ 970.20 by 16

$$\begin{array}{r} 16 \overline{) 970.20} \quad (60.18 \\ \underline{-96} \downarrow \downarrow \\ 102 \\ \underline{-96} \downarrow \\ 60 \\ \underline{-48} \\ 12 \end{array}$$

(b) ₹ 851.16 by 4

$$\begin{array}{r} 4 \overline{) 851.16} \quad (212.79 \\ \underline{-8} \downarrow \\ 5 \downarrow \\ \underline{-4} \downarrow \\ 11 \downarrow \\ \underline{-8} \downarrow \\ 3.1 \downarrow \\ \underline{-2.8} \downarrow \\ 36 \\ \underline{-36} \\ 0 \end{array}$$



(c) ₹ 772.94 by 14

$$\begin{array}{r} 14 \overline{) 772.94} \quad (55.21 \\ \underline{-70} \downarrow \downarrow \\ 72 \downarrow \downarrow \\ \underline{-70} \downarrow \downarrow \\ 29 \downarrow \downarrow \\ \underline{-28} \downarrow \downarrow \\ 14 \downarrow \downarrow \\ \underline{-14} \downarrow \downarrow \\ 0 \end{array}$$

(d) ₹ 970.20 by 15

$$\begin{array}{r} 15 \overline{) 970.20} \quad (64.68 \\ \underline{-90} \downarrow \downarrow \\ 70 \downarrow \downarrow \\ \underline{-60} \downarrow \downarrow \\ 102 \downarrow \downarrow \\ \underline{-90} \downarrow \downarrow \\ 120 \downarrow \downarrow \\ \underline{-120} \downarrow \downarrow \\ 0 \end{array}$$

(e) ₹ 613.29 by 12

$$\begin{array}{r} 12 \overline{) 613.29} \quad (51.1075 \\ \underline{-60} \downarrow \downarrow \\ 13 \downarrow \downarrow \\ \underline{12} \downarrow \downarrow \\ 12 \downarrow \downarrow \\ \underline{12} \downarrow \downarrow \\ 090 \downarrow \downarrow \\ \underline{-84} \downarrow \downarrow \\ 60 \downarrow \downarrow \\ \underline{-60} \downarrow \downarrow \\ 0 \end{array}$$

(f) ₹ 354.91 by 11

$$\begin{array}{r} 11 \overline{) 354.91} \quad (32.26 \\ \underline{-33} \downarrow \downarrow \\ 24 \downarrow \downarrow \\ \underline{22} \downarrow \downarrow \\ 29 \downarrow \downarrow \\ \underline{-22} \downarrow \downarrow \\ 71 \downarrow \downarrow \\ \underline{-66} \downarrow \downarrow \\ 5 \end{array}$$

(g) ₹ 481.46 by 8

$$\begin{array}{r} 8 \overline{) 481.46} \quad (60.18 \\ \underline{-48} \downarrow \downarrow \\ 014 \downarrow \downarrow \\ \underline{-8} \downarrow \downarrow \\ 66 \downarrow \downarrow \\ \underline{64} \downarrow \downarrow \\ 2 \end{array}$$

(h) ₹ 903.64 by 8

$$\begin{array}{r} 8 \overline{) 903.64} \quad (112.955 \\ \underline{-8} \downarrow \downarrow \downarrow \\ 10 \downarrow \downarrow \downarrow \\ \underline{-8} \downarrow \downarrow \downarrow \\ 23 \downarrow \downarrow \downarrow \\ \underline{-16} \downarrow \downarrow \downarrow \\ 76 \downarrow \downarrow \downarrow \\ \underline{-72} \downarrow \downarrow \downarrow \\ 44 \downarrow \downarrow \downarrow \\ \underline{-40} \downarrow \downarrow \downarrow \\ 40 \downarrow \downarrow \downarrow \\ \underline{-40} \downarrow \downarrow \downarrow \\ 0 \end{array}$$



(i) ₹ 641.50 by 13

$$\begin{array}{r} 13 \overline{) 641.50} \quad (49.34 \\ \underline{-52} \downarrow \\ 121 \\ \underline{-117} \downarrow \\ 45 \\ \underline{-39} \downarrow \\ 60 \\ \underline{-52} \\ 8 \end{array}$$

(j) ₹ 375.24 by 6

$$\begin{array}{r} 6 \overline{) 375.24} \quad (62.54 \\ \underline{-36} \downarrow \\ 15 \\ \underline{-12} \downarrow \\ 32 \\ \underline{-30} \downarrow \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

Practice Coach - 4 !

1. The cost of 1 kg mangoes = ₹ 85
The quantity of total mangoes = 12 kg
The cost of total mangoes = ₹ 85 × 12
= ₹ 1020

$$\begin{array}{r} 85 \\ \times 12 \\ \hline 170 \\ + 850 \\ \hline 1020 \end{array}$$

Thus, the cost of 12 kg mangoes is ₹ 1020.

2. Ashi bought a luggage bag = ₹ 2187.50
She bought a school bag = ₹ 445.00
She spent total amount = ₹ 2187.50 + ₹ 445.00
= ₹ 2632.50

$$\begin{array}{r} ₹ 2187.50 \\ + ₹ 445.00 \\ \hline ₹ 2632.50 \end{array}$$

Thus, Ashi ₹ 2632.50 spent.

3. I had money = ₹ 800
I bought items = ₹ 368.50
Left amount = ₹ 800 - ₹ 368.50
= ₹ 431.5

$$\begin{array}{r} ₹ 800.00 \\ - ₹ 368.50 \\ \hline ₹ 431.50 \end{array}$$

4. The cost of hand bag = ₹ 429.25
The cost of a belt = ₹ 579.50
∴ ₹ 579.50 > ₹ 429.25

$$\begin{array}{r} ₹ 579.50 \\ - ₹ 429.25 \\ \hline ₹ 150.25 \end{array}$$

Thus, the cost of belt is ₹ 150.25 more than the cost of hand bag.

5. A man has donated to grant scholarships = ₹ 211.20
The number of scholarships = 12
The amount in each scholarship = ₹ 211.20 ÷ 12
Thus, each will be ₹ 17.60 has scholarship.

$$\begin{array}{r} 12 \overline{) 211.20} \quad (17.60 \\ \underline{-12} \downarrow \\ 91 \\ \underline{-84} \downarrow \\ 72 \\ \underline{-72} \\ 0 \end{array}$$



6. Seema has total money = ₹ 459.00
 She wants to divide money equally = 15 parts
 The money will each part have = ₹ $459.00 \div 15$
 = ₹ 30.6

$$\begin{array}{r} 15 \overline{) 459} \quad (30.6 \\ -45 \downarrow \\ \hline 090 \\ \quad 90 \\ \hline 0 \end{array}$$

Thus, ₹ 30.6 will each part have.

7. A man bought a calculator = ₹ 794
 He bought pen = ₹ 150
 He bought a book = ₹ 986
 He spent money in all = ₹ 794 + ₹ 150 + ₹ 986
 = ₹ 1930

$$\begin{array}{r} ₹ \quad 794 \\ ₹ \quad 150 \\ + ₹ \quad 986 \\ \hline ₹ \quad 1930 \end{array}$$

8. Suresh bought mangoes = ₹ 128.50
 He bought oranges = ₹ 78.50
 He bought melons = ₹ 210.50

$$\begin{array}{r} ₹ \quad 128.50 \\ ₹ \quad 78.50 \\ - ₹ \quad 210.50 \\ \hline ₹ \quad 417.50 \end{array}$$

The total cost of three items = ₹ 128.50 + ₹ 78.50 + ₹ 210.50
 = ₹ 417.5

Suresh had money = ₹ 900
 Left me = ₹ 900 – ₹ 417.5

$$= 482.5$$

Thus, ₹ 482.50 is left with him.

$$\begin{array}{r} ₹ \quad 900.00 \\ - ₹ \quad 417.50 \\ \hline ₹ \quad 482.50 \end{array}$$

Practice Coach - 5 !

1.

Item	Rate	Quantity	Amount
Pen	20.50	4	82.00
Pizza	155.50	5	775.50
Bread	25.00	3	75.00
Chocolate	80.00	3	240.00
		Total	₹ 1172.50

2.

Item	Rate	Quantity	Amount
Soap	18.25	6	109.50
Detergent	112.50	3	337.50
Face pack	172.50	5	862.50
Cold Drink	87.00	2	174.00
		Total	₹ 1433.50



Rahul gave money to the shopkeeper = ₹ 2000

Spend money = ₹ 1483.50

Left money = ₹ 2000 – ₹ 1483.50
= ₹ 516.50

$$\begin{array}{r} ₹ 2000.00 \\ - ₹ 1483.50 \\ \hline ₹ 516.50 \end{array}$$

Thus, Rahul will get ₹ 516.50 back.

Mental Maths

1. 100 2. 5000 3. 20000 4. 50000 5. 40 6. 10 7. ₹ 72.05 8. 20,20,2
9. ₹ 49.50 10. 175

Multiple Choice Questions (MCQs) :

1. (a) ₹ 2. (c) ₹ 964.25 3. (c) ₹ 300 4. (b) 100 5. (b) 100

Chapter

13

Data Handling

Practice Coach - 1 !

1. (a) # 4 (b) # 5 (c) # 1 = 15, # 2 = 8, # 3 = 12, # 4 = 16, # 5 = 6, # 6 = 9
2. 1. Sleeping 2. 14 hours 3. 3 hours
3. (a) July (b) January (c) 110 cm or 1 m 10 cm
4. (a) Village D (b) Village A (c) 100 people (d) Types of villages (e) Population of villages (f) 1500 people
5. (a) School bus (b) 12 (c) 8 (d) 5 (e) 26

