

Mathematics-2

1. Number and Numeration

Revision

Write the number name :

62 sixty two, 41 forty one, 26 Twenty six,
12 Twelve, 78 seventy eight 83 eight three

Write the numeral for the following :

Sixteen **16** Ninety-seven **97** Eighty-two **82**
Fifty-five **55** Forty-one **41** Thirty-three **33**

What number comes before the given numbers?

66 67 **43** 44 **22** 23 **10** 11
80 81 **76** 77 **37** 38 **95** 96

What number comes after the given numbers?

17 **18** 82 **83** 59 **60** 93 **94**
29 **30** 31 **32** 68 **69** 20 **21**

What number comes between the given numbers?

8 **9** 10 48 **49** 50 73 **74** 75 69 **70** 71
95 **96** 97 89 **90** 91 54 **55** 56 27 **28** 29

Ring (○) the greater number and tick (✓) the smaller number in each group :

42 68 (71) 18 ✓ 35 23 ✓ 60 (85)
57 38 11 ✓ (79) 20 ✓ 59 (97) 37

Fill in the blanks with '<' '>' or '=' :

42 < 56 35 = 35 89 > 85 69 > 57
67 < 71 24 < 42 48 > 11 92 = 92
33 < 66 12 < 15 40 < 80 18 < 81

In each pair write the smaller number in the small circle and the bigger number in the big circle :

(36)	(78)	(55)	(21)
○ 45	○ 87	○ 79	○ 68
36, 45	87, 78	79, 55	21, 68

Arrange the numbers in ascending order :

7	10	13	16	18	19	22	36	48	53	61	68	72	82
15	25	28	31	37	40	44	25	34	43	52	55	61	67
21	28	32	37	41	49	52							

Arrange the numbers in descending order :

41	39	35	29	24	18	17	85	58	44	31	30	27
79	56	48	45	33	25	88	75	73	64	57	48	
88	75	73	64	57	48	81	64	43	31	23	18	

Exercise

Fill in the blanks by counting forwards :

201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230
231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290
291	292	293	294	295	296	297	298	299	300

Write the number names for the following :

100	One hundred	247	two hundred forty seven
381	Three hundred eight one	482	four hundred eighty two
136	One hundred thirty six	255	two hundred fifty five
128	One hundred twenty eight	210	two hundred ten
250	Two hundred fifty	325	three hundred twenty five
416	Four hundred sixteen	478	four hundred seventy eight
375	Three hundred seventy five	452	four hundred fifty two

Write in the figures :

	H	T	O
Four hundred fifty six	4	5	6
Two hundred seventy one	2	7	1
Two hundred sixty-one	2	6	1
One hundred twenty	1	2	0
Four hundred four	4	0	4
Three hundred ninety eight	3	9	8
Five hundred	5	0	0

Before, After and in Between

What will be the 'number before' in each of the following?

a. 115 116 b. 277 278 c. 353 354 d. 436 437

What will be the 'number after' in each of the following?

a. 138 139 b. 417 418 c. 291 292 d. 353 354

What will be the number in between each of the following?



- a. $\overline{462}$ **463** $\overline{464}$ b. $\overline{280}$ **281** $\overline{282}$
 c. $\overline{349}$ **350** $\overline{351}$ d. $\overline{132}$ **133** $\overline{134}$

Expanded Form

Exercise

Write the following numbers in expanded form :

- b. $262 = 2 \text{ hundreds} + 6 \text{ tens} + 2 \text{ ones} = 200 + 60 + 2$
 c. $446 = 4 \text{ hundreds} + 4 \text{ tens} + 6 \text{ ones} = 400 + 40 + 6$
 d. $385 = 3 \text{ hundreds} + 8 \text{ tens} + 5 \text{ ones} = 300 + 80 + 5$

Write in short form :

- a. $400 + 70 + 6 = 476$ b. $300 + 40 + 9 = 349$ c. $200 + 90 + 1 = 291$
 d. $100 + 60 + 5 = 165$ e. $100 + 50 + 4 = 154$ f. $200 + 80 + 3 = 283$
 g. $300 + 60 + 2 = 362$ h. $400 + 40 + 4 = 444$

Comparing Numbers

Exercise

1. Insert $>$, $<$ or $=$:

- a. $234 < 432$ b. $882 > 228$ c. $530 < 533$
 d. $999 > 106$ e. $211 > 112$ f. $655 = 655$

2. Write any three numbers greater than :

- a. $667 < 668 < 669 < 670$ b. $948 < 949 < 950 < 951$

3. Write any three numbers smaller than :

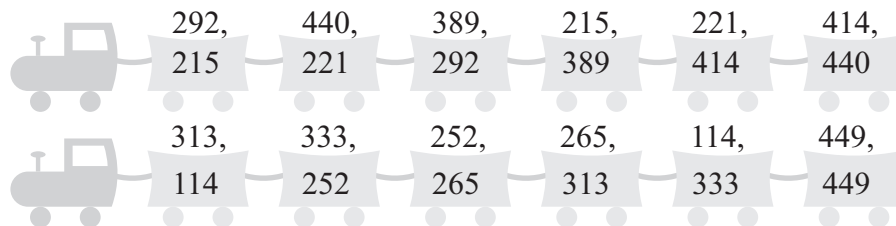
- a. $459 > 458 > 457 > 456$ b. $125 > 124 > 123 > 122$

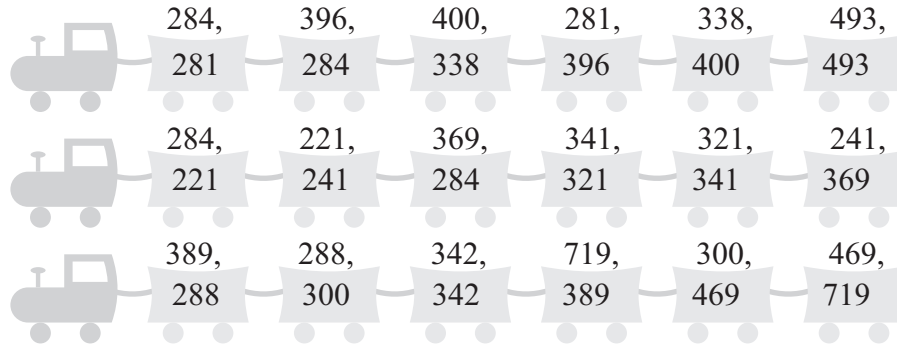
4. In each group, tick (\checkmark) the greatest number and cross (\times) the smallest number :

246,	293,	309,	105, \times	463, \checkmark	343
379,	346,	499,	242,	604, \checkmark	200 \times
318,	292,	240,	400, \checkmark	397,	199 \times
219,	439, \checkmark	400,	295,	209, \times	369
246, \times	309,	264,	293,	955, \checkmark	401
344,	410, \checkmark	156, \times	176,	256,	198
200,	739, \checkmark	504,	462,	102, \times	275

Increasing Order

Exercise

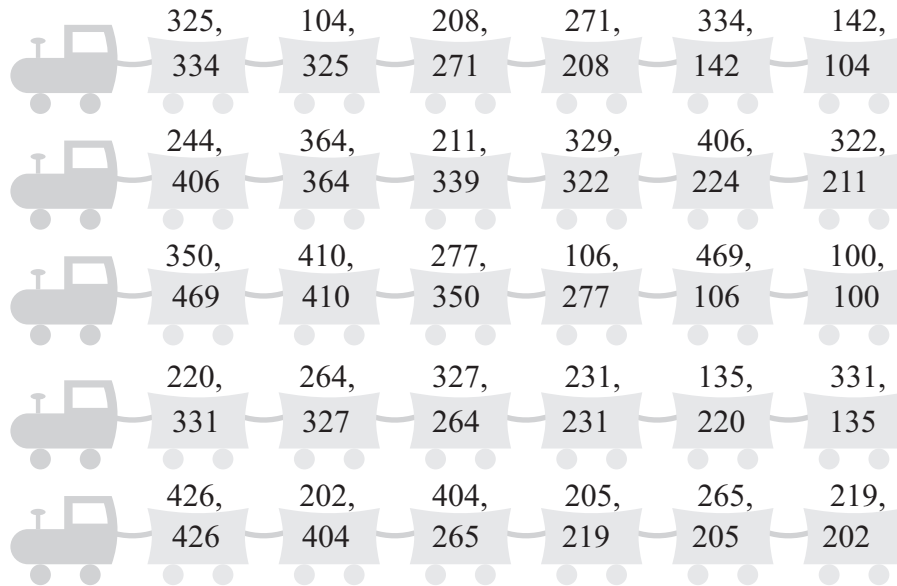




Decreasing Order

Exercise

Write the numbers in the decreasing order :



Lab Activity

Try This :


1 hundred + 5 tens + 6 ones = 156

2 hundred + 0 tens + 0 ones = 200

2. Addition

Exercise

Solve these addition sums :

a.  +  = 3 + 4 = 7



b.  +  = 2 + 3 = 5

c. $5 + 4 = 9$

d. $3 + 3 = 6$

e. $6 + 1 = 7$

f. $7 + 1 = 8$

Addends and Sum

Exercise

Find the sum :

a.

T	O
4	5
+	
5	1
9	6

b.

T	O
5	6
+	
2	2
7	8

c.

T	O
2	9
+	
7	0
9	9

Addition by Counting Forward

$12 + 2$
12 13 14
 $12 + 2 = 14$

$25 + 5$
25 26 27 28 29 30
 $25 + 5 = 30$

Exercise

Find the sum by counting forward :

a. $36 + 3$
36 37 38 39
 $36 + 3 = 39$

b. $41 + 5$
41 42 43 44 45 46
 $41 + 5 = 46$

c. $57 + 9$
57 58 59 60 61 62 63 64 65 66
 $57 + 9 = 66$

d. $67 + 8$
67 68 69 70 71 72 73 74 75
 $67 + 8 = 75$

Adding in Columns

Write the numbers in columns and then find their sum :

a.

T	O
2	6
+	
4	3
6	9

b.

T	O
2	5
+	
5	3
7	8

c.

T	O
7	5
+	
1	1
8	6

d.

T	O
8	3
+	
1	5
9	8

e.

T	O
8	6
+	
4	2
12	8

f.

T	O
6	6
+	
3	3
9	9

Order of Addends

Exercise

a.

T	O
2	3
+	
1	6
3	9

 +

T	O
1	6
+	
2	3
3	9

b.

T	O
2	3
+	
4	1
6	4

 +

T	O
4	1
+	
2	3
6	4



c.

T	O
5	5
+	4
4	2
+	
9	7

T	O
4	2
+	5
5	5
+	
9	7

d.

T	O
1	5
+	3
3	1
+	
4	6

T	O
3	1
+	1
1	5
+	
4	6

Word Problems

Solve the following words problems :

1.

T	O
2	6
+	3
3	3
+	
5	9

Number of men
Number of women
Total number of people
Answer : 59 people

2.

T	O
5	2
+	3
3	6
+	
8	8

Ravi bought oranges
Anuj bought oranges
In all there were oranges
Answer : 88 oranges

3.

T	O
3	5
+	2
2	3
+	
5	8

On Monday he sold fruits
On Tuesday he sold fruits
In two days he sold fruits
Answer : 58 fruits

4.

T	O
5	2
+	3
3	1
+	
8	3

Preeti has toys
Nidhi has toys
In all threr sold toys
Answer : 83 toys

5.

T	O
4	2
+	2
2	6
+	
6	8

Bhanu's shelf has toys
Reema's shelf has toys
In all there are toys
Answer : 68 books



Addition of Three Numbers

Exercise

Add the following :

a.

T	O		T	O	
3	1		7	4	
+	4	3	+	2	1
7	4		9	5	

Answer : 95

b.

T	O		T	O	
5	0		6	5	
+	1	5	+	1	2
6	5		7	7	

Answer : 77

c.

T	O		T	O	
1	6		3	7	
+	2	1	+	3	2
3	7		6	9	

Answer : 69

d.

T	O		T	O	
2	0		6	0	
+	4	0	+	1	0
6	0		7	0	

Answer : 70

e.

T	O		T	O	
3	2		7	3	
+	4	1	+	1	1
7	3		8	4	

Answer : 84

f.

T	O		T	O	
4	3		6	4	
+	2	1	+	3	1
6	4		9	5	

Answer : 95

Regrouping of Numbers

Exercise

1. Fill in the boxes :

a. $4 \text{ tens} + 15 \text{ ones} = 4 \text{ tens} + 1 \text{ ten} + 5 \text{ ones}$
 $= 5 \text{ tens} + 5 \text{ ones}$

b. $1 \text{ tens} + 12 \text{ ones} = 1 \text{ tens} + 1 \text{ ten} + 2 \text{ ones}$
 $= 2 \text{ tens} + 2 \text{ ones}$

c. $3 \text{ tens} + 21 \text{ ones} = 3 \text{ tens} + 2 \text{ ten} + 1 \text{ ones}$
 $= 5 \text{ tens} + 1 \text{ ones}$

d. $2 \text{ tens} + 26 \text{ ones} = 2 \text{ tens} + 2 \text{ ten} + 6 \text{ ones}$
 $= 4 \text{ tens} + 6 \text{ ones}$

e. $5 \text{ tens} + 42 \text{ ones} = 5 \text{ tens} + 4 \text{ ten} + 2 \text{ ones}$
 $= 9 \text{ tens} + 2 \text{ ones}$

2. Write in tens and ones :

(a) $3 \text{ tens} + 15 \text{ ones} = 4 \text{ tens} + 5 \text{ ones}$

(b) $7 \text{ tens} + 32 \text{ ones} = 10 \text{ tens} + 2 \text{ ones}$

(c) $5 \text{ tens} + 28 \text{ ones} = 7 \text{ tens} + 8 \text{ ones}$

Addition with Carrying

Exercise

Find the sum of the following :

a.

T	O
① 4	6

+

3	9
---	---

8	5
---	---

b.

T	O
① 6	4

+

2	9
---	---

9	3
---	---

c.

T	O
① 3	5

+

4	8
---	---

8	3
---	---

d.

T	O
① 5	4

+

2	9
---	---

8	3
---	---

e.

T	O
① 5	6

+

2	5
---	---

8	1
---	---

f.

T	O
① 2	3

+

4	7
---	---

7	0
---	---

g.

T	O
① 2	6

+

4	5
---	---

7	1
---	---

h.

T	O
① 1	7

+

4	8
---	---

6	5
---	---

i.

T	O
① 2	6

+

3	9
---	---

6	5
---	---

j.

T	O
① 3	6

+

5	7
---	---

9	3
---	---

k.

T	O
① 4	7

+

3	6
---	---

8	3
---	---

l.

T	O
① 5	9

+

2	7
---	---

8	6
---	---

m.

T	O
① 2	8

+

6	6
---	---

9	4
---	---

n.

T	O
① 8	6

+

1	8
---	---

10	4
----	---

o.

T	O
① 2	3

+

5	9
---	---

8	2
---	---

p.

T	O
① 1	8

+

6	4
---	---

8	2
---	---

Word Problems

Exercise

Solve the following word problems :

1.

Number of vegetable shops	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td>① 1</td><td>6</td></tr></table>	T	O	① 1	6	shops
T	O					
① 1	6					
Number of fruits shops	+ <table border="1"><tr><td>2</td><td>7</td></tr></table>	2	7	shops		
2	7					
Total numbers of shops	<table border="1"><tr><td>4</td><td>3</td></tr></table>	4	3	shops		
4	3					

Answer : 43 shops

2.

Number of green oranges	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td>① 4</td><td>2</td></tr></table>	T	O	① 4	2	shops
T	O					
① 4	2					
Number of yellow oranges	+ <table border="1"><tr><td>4</td><td>8</td></tr></table>	4	8	shops		
4	8					
Total no. of oranges	<table border="1"><tr><td>9</td><td>0</td></tr></table>	9	0	shops		
9	0					

Answer : 90 oranges

Sum of Three Addends with Regrouping

Exercise

1. Find the sum of each of the following :

a.	T O ① 4 5	+	T O 6 1	+	T O 3 5	+	T O 5 1	+	T O 5 1	+	T O 2 3	+	T O 7 4
	+ 1 6		+ 3 5		+ 1 3		+ 2 3		+ 5 1		+ 7 4		6 1
	6 1		9 6		5 1		7 4		5 1		7 4		6 1

The sum is **96**

The sum is **74**

2. Find the sum of each of the following :

a.	T O ① 1 6	+	T O 2 5	+	T O 2 7	+	T O 2 5	+	T O 2 9	+	T O 1 4	+	T O 5 5
	2 5		4 8		3 7		3 7		1 4		1 4		5 5
	6 8		8 1		9 2		9 2		9 8		9 8		9 8

Q.3. Do these sums in your not book :

<p>a. Mona had 27 bangles Sita had 34 bangles Salman had + 24 bangles</p> <hr style="width: 100%;"/> <p>Total 85 bangles</p>	<p>b. Pink Pages 45 blue Pages + 28</p> <hr style="width: 100%;"/> <p>Total Pages 73</p>
<p>c. Blue balloons 18 Pink balloons 24 Yellow balloons + 29</p> <hr style="width: 100%;"/> <p>Total balloons 61</p>	<p>d. People in Ist bus 59 People in IInd bus + 63</p> <hr style="width: 100%;"/> <p>Total People 122</p>
<p>e. Neem trees 36 Peepal trees 45 flowering + 15</p> <hr style="width: 100%;"/> <p>trees in field 96</p>	<p>f. Ist box had 75 slabs of chocolates IInd box had + 27 slabs of chocolates</p> <hr style="width: 100%;"/> <p>Total 102 slabs of chocolates</p>

Exercise

1. Fill in the boxes :

- 6 tens + 18 ones = 7 tens + 8 ones
- 5 tens + 12 ones = 6 tens + 2 ones
- 3 tens + 15 ones = 4 tens + 5 ones



2. Write in columns and add :

a. $35 + 43$

	T	O
	3	5
+	4	3
	7	8

b. $29 + 10$

	T	O
	2	9
+	1	0
	3	9

c. $63 + 12$

	T	O
	6	3
+	1	2
	7	5

3. Find the sum :

a. $65 + 27$

	T	O
	6	5
+	2	7
	9	2

b. $37 + 43$

	T	O
	3	7
+	4	3
	8	0

c. $89 + \quad 7$

	T	O
	8	9
+		7
	9	6

d. $23 + 41$

	T	O
	2	3
+	4	1
	2	5
	8	9

e. $18 + 26$

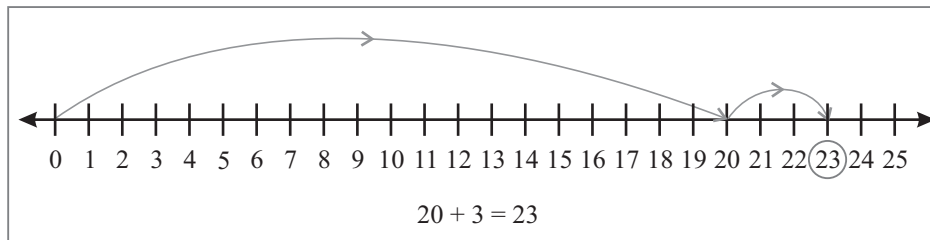
	T	O
	1	8
+	2	6
	4	3
	8	7

f. $27 + 29$

	T	O
	2	7
+	2	9
	1	5
	7	1

4. $\begin{array}{r} \text{made green shirt} \quad 48 \\ \text{made blue shirt} \quad 29 \\ \text{made black shirt} \quad + 16 \\ \hline \text{Total shirts made} \quad 93 \end{array}$

5. Draw a number line and use it to add 20 and 3.



6. Add by counting forward :

a. $56 + 6 \rightarrow$ \rightarrow

b. $45 + 4 \rightarrow$ \rightarrow

7. Find the sum :

a. $45 + 51$

	T	O
	4	5
+	5	1
	9	6

b. $53 + 42$

	T	O
	5	3
+	4	2
	9	5

c. $19 + 32$

	T	O
	1	9
+	3	2
	5	1







8. Fill in this table :

Numerals	Number Name	Hundreds	Tens	Ones
a. 425	Four hundred twenty five	4	2	5
b. 748	seven hundred forty eight	7	4	8

3. Subtraction

Exercise

1. Cross (×) out the number of objects to be subtracted and find the answer :

- a. $7 - 3 =$  4
- b. $6 - 3 =$  3
- c. $8 - 2 =$  6
- d. $4 - 1 =$  3

2. Fill in the boxes :

- a. $8 - 6 = 2$ b. $7 - 3 = 4$ c. $4 - 2 = 2$
 d. $9 - 6 = 3$ e. $6 - 3 = 3$ f. $9 - 5 = 4$
 g. $8 - 3 = 5$ h. $9 - 3 = 6$ i. $6 - 4 = 2$

Subtracting by Backward Counting

Exercise

Subtract by counting backward :

- a. $83 - 6$ b. $72 - 4$
 $83 \quad 82 \quad 81 \quad 80 \quad 79 \quad 78 \quad 77$ $72 \quad 71 \quad 70 \quad 69 \quad 68$
 $83 - 6 = 77$ $72 - 4 = 68$
- c. $48 - 9$
 $48 \quad 47 \quad 46 \quad 45 \quad 44 \quad 43 \quad 42 \quad 41 \quad 40 \quad 39$
 $48 - 9 = 39$

Subtract Facts

Property 2



Exercise

$$8 - 8 = 0$$

Fill in the blanks on the basis of subtraction facts :

- a. $34 - 0 = 34$ b. $68 - 68 = 0$ c. $98 - 1 = 97$
 d. $77 - 77 = 0$ e. $18 - 1 = 17$ f. $100 - 0 = 100$
 g. $36 - 0 = 36$ h. $90 - 1 = 89$ i. $62 - 0 = 62$
 j. $18 - 18 = 0$ k. $33 - 1 = 32$ l. $50 - 50 = 0$
 m. $54 - 54 = 0$ n. $89 - 0 = 89$ o. $75 - 1 = 74$



Mental Math

$$\begin{array}{r} 11 - 1 = 10 \quad \mathbf{J} \\ 9 - 2 = 7 \quad \mathbf{G} \\ 6 - 5 = 1 \quad \mathbf{A} \end{array}$$

$$\begin{array}{r} 10 - 1 = 9 \quad \mathbf{I} \\ 8 - 6 = 2 \quad \mathbf{B} \end{array}$$

Subtraction of 2-digit Numbers (without borrowing)

Exercise

Subtract the following numbers :

a.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td>4</td><td>6</td></tr><tr><td>-</td><td>3 5</td></tr><tr><td>1</td><td>1</td></tr></table>	T	O	4	6	-	3 5	1	1	b.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td>8</td><td>5</td></tr><tr><td>-</td><td>6 0</td></tr><tr><td>2</td><td>5</td></tr></table>	T	O	8	5	-	6 0	2	5	c.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td>6</td><td>9</td></tr><tr><td>-</td><td>2 5</td></tr><tr><td>4</td><td>4</td></tr></table>	T	O	6	9	-	2 5	4	4	d.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td>6</td><td>1</td></tr><tr><td>-</td><td>5 1</td></tr><tr><td>1</td><td>0</td></tr></table>	T	O	6	1	-	5 1	1	0	e.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td>8</td><td>4</td></tr><tr><td>-</td><td>1 2</td></tr><tr><td>7</td><td>2</td></tr></table>	T	O	8	4	-	1 2	7	2
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2	9																																																
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7	8																																																
-	1 6																																																
6	2																																																
T	O																																																
5	6																																																
-	4 1																																																
1	5																																																
T	O																																																
9	5																																																
-	7 4																																																
2	1																																																

Subtraction of 3-digit Numbers (without borrowing)

Exercise

Subtract the following numbers :

a.	<table border="1"><tr><td>H</td><td>T</td><td>O</td></tr><tr><td>8</td><td>8</td><td>8</td></tr><tr><td>-</td><td>3</td><td>4</td><td>3</td></tr><tr><td>5</td><td>4</td><td>5</td></tr></table>	H	T	O	8	8	8	-	3	4	3	5	4	5	b.	<table border="1"><tr><td>H</td><td>T</td><td>O</td></tr><tr><td>9</td><td>4</td><td>7</td></tr><tr><td>-</td><td>1</td><td>0</td><td>2</td></tr><tr><td>8</td><td>4</td><td>5</td></tr></table>	H	T	O	9	4	7	-	1	0	2	8	4	5	c.	<table border="1"><tr><td>H</td><td>T</td><td>O</td></tr><tr><td>2</td><td>4</td><td>5</td></tr><tr><td>-</td><td>1</td><td>1</td><td>4</td></tr><tr><td>1</td><td>3</td><td>1</td></tr></table>	H	T	O	2	4	5	-	1	1	4	1	3	1
H	T	O																																										
8	8	8																																										
-	3	4	3																																									
5	4	5																																										
H	T	O																																										
9	4	7																																										
-	1	0	2																																									
8	4	5																																										
H	T	O																																										
2	4	5																																										
-	1	1	4																																									
1	3	1																																										
d.	<table border="1"><tr><td>H</td><td>T</td><td>O</td></tr><tr><td>5</td><td>2</td><td>3</td></tr><tr><td>-</td><td>3</td><td>2</td><td>2</td></tr><tr><td>2</td><td>0</td><td>1</td></tr></table>	H	T	O	5	2	3	-	3	2	2	2	0	1	e.	<table border="1"><tr><td>H</td><td>T</td><td>O</td></tr><tr><td>5</td><td>0</td><td>6</td></tr><tr><td>-</td><td>5</td><td>0</td><td>1</td></tr><tr><td>0</td><td>0</td><td>5</td></tr></table>	H	T	O	5	0	6	-	5	0	1	0	0	5	f.	<table border="1"><tr><td>H</td><td>T</td><td>O</td></tr><tr><td>5</td><td>6</td><td>2</td></tr><tr><td>-</td><td></td><td>4</td><td>0</td></tr><tr><td>5</td><td>2</td><td>2</td></tr></table>	H	T	O	5	6	2	-		4	0	5	2	2
H	T	O																																										
5	2	3																																										
-	3	2	2																																									
2	0	1																																										
H	T	O																																										
5	0	6																																										
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0	0	5																																										
H	T	O																																										
5	6	2																																										
-		4	0																																									
5	2	2																																										

Subtraction with 100, 200,...900

Exercise

Subtract the following numbers :

a.	<table border="1"><tr><td>H</td><td>T</td><td>O</td></tr><tr><td>5</td><td>0</td><td>0</td></tr><tr><td>-</td><td>2</td><td>0</td><td>0</td></tr><tr><td>3</td><td>0</td><td>0</td></tr></table>	H	T	O	5	0	0	-	2	0	0	3	0	0	b.	<table border="1"><tr><td>H</td><td>T</td><td>O</td></tr><tr><td>8</td><td>0</td><td>0</td></tr><tr><td>-</td><td>5</td><td>0</td><td>0</td></tr><tr><td>3</td><td>0</td><td>0</td></tr></table>	H	T	O	8	0	0	-	5	0	0	3	0	0	c.	<table border="1"><tr><td>H</td><td>T</td><td>O</td></tr><tr><td>7</td><td>0</td><td>0</td></tr><tr><td>-</td><td>6</td><td>0</td><td>0</td></tr><tr><td>1</td><td>0</td><td>0</td></tr></table>	H	T	O	7	0	0	-	6	0	0	1	0	0
H	T	O																																										
5	0	0																																										
-	2	0	0																																									
3	0	0																																										
H	T	O																																										
8	0	0																																										
-	5	0	0																																									
3	0	0																																										
H	T	O																																										
7	0	0																																										
-	6	0	0																																									
1	0	0																																										



$$\begin{array}{r}
 \text{d.} \quad \begin{array}{|c|c|c|} \hline \text{H} & \text{T} & \text{O} \\ \hline 6 & 6 & 3 \\ \hline - & 5 & 0 & 0 \\ \hline 1 & 6 & 3 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{e.} \quad \begin{array}{|c|c|c|} \hline \text{H} & \text{T} & \text{O} \\ \hline 7 & 4 & 3 \\ \hline - & 1 & 0 & 0 \\ \hline 6 & 4 & 3 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{f.} \quad \begin{array}{|c|c|c|} \hline \text{H} & \text{T} & \text{O} \\ \hline 5 & 6 & 7 \\ \hline - & 3 & 0 & 0 \\ \hline 2 & 6 & 7 \\ \hline \end{array}
 \end{array}$$

Exercise

Solve these sums:

$$\begin{array}{r}
 \text{a.} \quad \begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 8 & 2 \\ \hline - & 1 & 7 \\ \hline 6 & 5 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{b.} \quad \begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 4 & 8 \\ \hline - & 3 & 9 \\ \hline 0 & 9 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{c.} \quad \begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 6 & 3 \\ \hline - & 2 & 8 \\ \hline 3 & 5 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{d.} \quad \begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 7 & 3 \\ \hline - & & 9 \\ \hline 6 & 4 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{e.} \quad \begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 5 & 8 \\ \hline - & 1 & 9 \\ \hline 3 & 9 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{f.} \quad \begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 4 & 5 \\ \hline - & 2 & 6 \\ \hline 1 & 9 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{g.} \quad \begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 3 & 8 \\ \hline - & & 8 \\ \hline 5 & 0 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{h.} \quad \begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 7 & 5 \\ \hline - & 2 & 8 \\ \hline 4 & 7 \\ \hline \end{array}
 \end{array}$$

Subtraction of 3-digit Numbers (regrouping ones and tens)

Exercise

1. Regroup the following numbers. One is done for you :

$$\begin{array}{r}
 \text{a.} \quad \begin{array}{|c|c|c|} \hline \text{H} & \text{T} & \text{O} \\ \hline 2 & 1 & 4 \\ \hline \end{array} \\
 \hline
 \end{array}$$

2 hundred
2 tens 4 ones

$$\begin{array}{r}
 \text{b.} \quad \begin{array}{|c|c|c|} \hline \text{H} & \text{T} & \text{O} \\ \hline 6 & 6 & 7 \\ \hline \end{array} \\
 \hline
 \end{array}$$

6 hundred
7 tens 7 ones

$$\begin{array}{r}
 \text{c.} \quad \begin{array}{|c|c|c|} \hline \text{H} & \text{T} & \text{O} \\ \hline 5 & 0 & 9 \\ \hline \end{array} \\
 \hline
 \end{array}$$

5 hundred
1 tens 9 ones

2. Subtract the following by regrouping :

$$\begin{array}{r}
 \text{a.} \quad \begin{array}{|c|c|c|} \hline \text{H} & \text{T} & \text{O} \\ \hline 7 & 8 & 3 \\ \hline - & 5 & 3 & 8 \\ \hline 2 & 4 & 5 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{b.} \quad \begin{array}{|c|c|c|} \hline \text{H} & \text{T} & \text{O} \\ \hline 6 & 6 & 4 \\ \hline - & 1 & 3 & 9 \\ \hline 5 & 2 & 5 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{c.} \quad \begin{array}{|c|c|c|} \hline \text{H} & \text{T} & \text{O} \\ \hline 8 & 6 & 8 \\ \hline - & 3 & 3 & 9 \\ \hline 5 & 2 & 9 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{d.} \quad \begin{array}{|c|c|c|} \hline \text{H} & \text{T} & \text{O} \\ \hline 6 & 8 & 5 \\ \hline - & 5 & 4 & 6 \\ \hline 1 & 3 & 9 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{e.} \quad \begin{array}{|c|c|c|} \hline \text{H} & \text{T} & \text{O} \\ \hline 3 & 6 & 6 \\ \hline - & 1 & 3 & 8 \\ \hline 2 & 2 & 8 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{f.} \quad \begin{array}{|c|c|c|} \hline \text{H} & \text{T} & \text{O} \\ \hline 4 & 8 & 3 \\ \hline - & 1 & 7 & 6 \\ \hline 3 & 0 & 7 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{g.} \quad \begin{array}{|c|c|c|} \hline \text{H} & \text{T} & \text{O} \\ \hline 9 & 8 & 3 \\ \hline - & 5 & 6 & 5 \\ \hline 4 & 1 & 8 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{h.} \quad \begin{array}{|c|c|c|} \hline \text{H} & \text{T} & \text{O} \\ \hline 4 & 6 & 4 \\ \hline - & 3 & 4 & 5 \\ \hline 1 & 1 & 9 \\ \hline \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{i.} \quad \begin{array}{|c|c|c|} \hline \text{H} & \text{T} & \text{O} \\ \hline 6 & 3 & 6 \\ \hline - & 4 & 1 & 8 \\ \hline 2 & 1 & 8 \\ \hline \end{array}
 \end{array}$$



Subtraction of 3-digit Numbers (regrouping both tens and hundreds)

Exercise

Subtract the following by regrouping ones, tens and hundreds :

a.

H	T	O	
3	2	2	
-	2	5	8
0	6	4	

b.

H	T	O	
7	4	7	
-	6	8	8
0	5	9	

c.

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

d.

H	T	O	
6	5	0	
-	2	9	6
3	5	4	

e.

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

f.

H	T	O	
2	0	3	
-	1	8	8
0	1	5	

Word Problems

1.

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

2.

H	T	O	
3	6	4	
-	1	6	7
1	9	7	

3.

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

4.

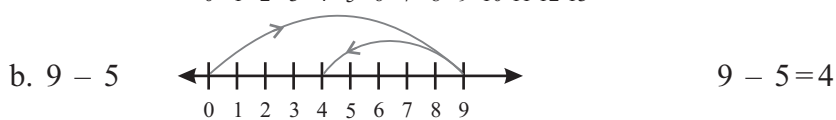
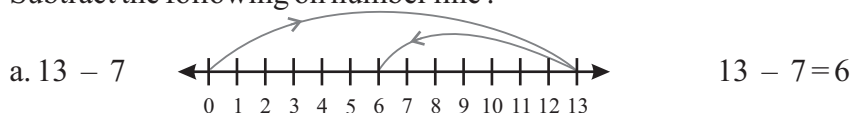
H	T	O	
4	8	2	
-	2	9	8
1	8	4	

Formative Assessment-1

1. Write the following in expanded form :

a. $487 = 400 + 80 + 7$ b. $269 = 200 + 60 + 9$ c. $231 = 200 + 30 + 1$

2. Subtract the following on number line :



3. Find the sum :

a.

T	O	
4	8	
+	3	4
8	2	

b.

T	O	
5	5	
+	1	7
7	2	

c.

T	O	
6	3	
+	2	7
9	0	



4. Write the number which is greater in each of the following :

a. 157 and 169 **169**

b. 215 and 205 **215**

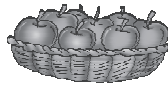
c. 377 and 317 **377**

5.
$$\begin{array}{r} 57 \\ - 16 \\ \hline \end{array}$$
 Priya has 41 More dolls

4. Multiplication

Exercise

Look at each group and write the numbers :



8 +



8 +



8 = 24



3 +



3 +



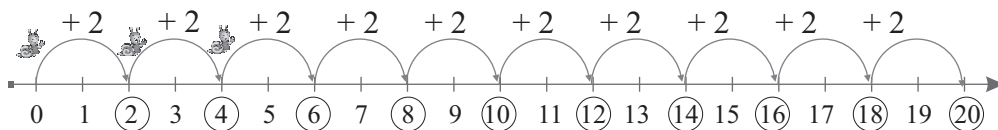
3 = 9

Multiplication Tables

Exercise

Look how we jump 2 numbers on the number line for the table of 2.

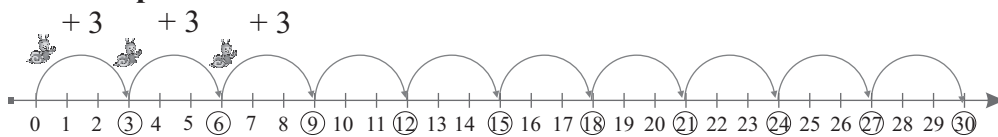
Complete it :



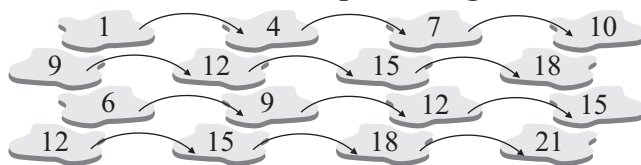
Exercise

1. Look how we jump 3 numbers on the number line for the table of 3.

Complete it :

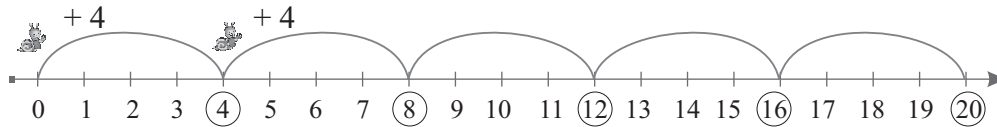


2. Fill in the blanks with skip counting in 3's :



Exercise

1. Look how we jump 4 numbers on the number line for the table of 4. Complete it:



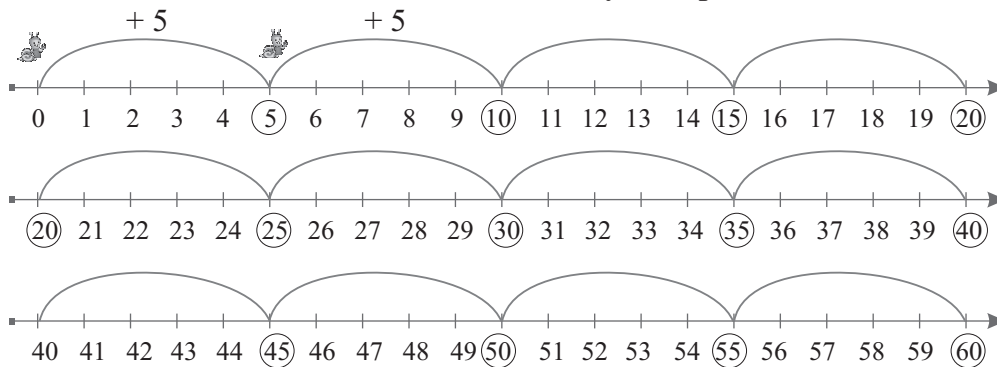
2. See the table of 4 given above and solve the sums :

$$4 \times 9 = 36 \quad 4 \times 7 = 28 \quad 4 \times 4 = 16$$

$$4 \times 6 = 24 \quad 4 \times 1 = 4 \quad 4 \times 5 = 20$$

Exercise

1. Skin count in 5's and circle the number as you skip :



Exercise

Do the sum and then write the product. One has been done :

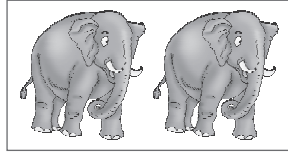
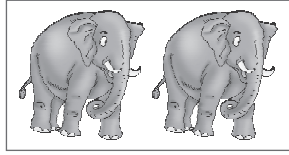
b.

$$2 + 2 + 2 + 2 + 2 + 2 = 2 \times 6 = 12$$

c.

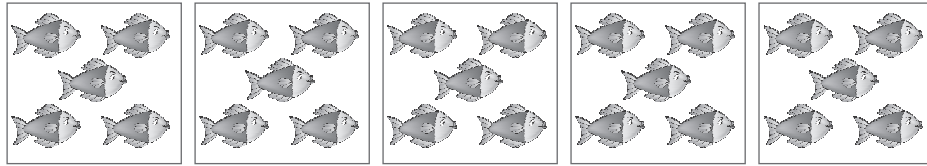
$$4 + 4 + 4 + 4 = 4 \times 4 = 16$$


d.



$$2 + 2 = 2 \times 2 = 4$$

e.



$$5 + 5 + 5 + 5 + 5 = 5 \times 5 = 25$$

Multiplication on the Grid

This is a grid showing table of 1–10. Fill in the missing numbers :

×	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

It is very easy to solve multiplication sums using this grid.

Exercise

Using the grid, complete the following :

a. $3 \times 5 = 15$

b. $4 \times 3 = 12$

c. $4 \times 6 = 24$

d. $5 \times 5 = 25$

e. $7 \times 1 = 7$

f. $5 \times 8 = 40$

g. $6 \times 5 = 30$

h. $6 \times 7 = 42$

i. $1 \times 3 = 3$

j. $8 \times 3 = 24$

k. $2 \times 8 = 16$

l. $7 \times 4 = 28$

m. $2 \times 5 = 10$

n. $4 \times 5 = 20$

o. $5 \times 7 = 35$

Match the boxes with the correct product clouds :

4 × 5	27
2 × 8	40
9 × 3	16
5 × 8	18
7 × 3	20
2 × 9	21
3 × 8	30
2 × 6	24
4 × 7	35
5 × 6	14
5 × 7	12
2 × 7	28

Exercise

1. Complete the boxes :

- a. $4 \times 1 = 4$ b. $5 \times 1 = 5$ c. $6 \times 1 = 6$
 d. 5×4 is same as $4 \times 5 = 20$ e. $4 \times 0 = 0$
 f. 2×7 is same as $7 \times 2 = 14$ g. $2 \times 0 = 0$
 h. 3×5 is same as $5 \times 3 = 15$ i. $3 \times 1 = 3$

2. Multiply and find the product :

a.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td></td><td>2</td></tr><tr><td>×</td><td>5</td></tr><tr><td>1</td><td>0</td></tr></table>	T	O		2	×	5	1	0	b.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td></td><td>4</td></tr><tr><td>×</td><td>6</td></tr><tr><td>2</td><td>4</td></tr></table>	T	O		4	×	6	2	4	c.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td></td><td>8</td></tr><tr><td>×</td><td>4</td></tr><tr><td>3</td><td>2</td></tr></table>	T	O		8	×	4	3	2	d.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td></td><td>3</td></tr><tr><td>×</td><td>9</td></tr><tr><td>2</td><td>7</td></tr></table>	T	O		3	×	9	2	7
T	O																																						
	2																																						
×	5																																						
1	0																																						
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3	2																																						
T	O																																						
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×	9																																						
2	7																																						
e.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td></td><td>5</td></tr><tr><td>×</td><td>5</td></tr><tr><td>2</td><td>5</td></tr></table>	T	O		5	×	5	2	5	f.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td></td><td>2</td></tr><tr><td>×</td><td>6</td></tr><tr><td>1</td><td>2</td></tr></table>	T	O		2	×	6	1	2	g.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td></td><td>5</td></tr><tr><td>×</td><td>8</td></tr><tr><td>4</td><td>0</td></tr></table>	T	O		5	×	8	4	0	h.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td></td><td>3</td></tr><tr><td>×</td><td>2</td></tr><tr><td></td><td>6</td></tr></table>	T	O		3	×	2		6
T	O																																						
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i.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td></td><td>6</td></tr><tr><td>×</td><td>3</td></tr><tr><td>1</td><td>8</td></tr></table>	T	O		6	×	3	1	8	j.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td></td><td>6</td></tr><tr><td>×</td><td>4</td></tr><tr><td>2</td><td>4</td></tr></table>	T	O		6	×	4	2	4	k.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td></td><td>2</td></tr><tr><td>×</td><td>8</td></tr><tr><td>1</td><td>6</td></tr></table>	T	O		2	×	8	1	6	l.	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td></td><td>8</td></tr><tr><td>×</td><td>3</td></tr><tr><td>2</td><td>4</td></tr></table>	T	O		8	×	3	2	4
T	O																																						
	6																																						
×	3																																						
1	8																																						
T	O																																						
	6																																						
×	4																																						
2	4																																						
T	O																																						
	2																																						
×	8																																						
1	6																																						
T	O																																						
	8																																						
×	3																																						
2	4																																						



Multiplication with 2-digit Number (without carry-over)

Exercise

Multiply and find the product :

a.

T	O
2	4
×	2
4	8

b.

T	O
5	3
×	1
5	3

c.

T	O
2	1
×	4
8	4

d.

T	O
1	1
×	3
3	3

e.

T	O
1	4
×	2
2	8

f.

T	O
7	5
×	1
7	5

g.

T	O
2	0
×	4
8	0

h.

T	O
4	4
×	2
8	8

i.

T	O
2	2
×	4
8	8

j.

T	O
3	1
×	2
6	2

k.

T	O
1	0
×	5
5	0

h.

T	O
1	1
×	4
4	4

Multiplication with 2-digit Number (with carry-over)

Exercise

Multiply :

a.

T	O
4	6
×	3
13	8

b.

T	O
2	7
×	5
13	5

c.

T	O
1	9
×	3
5	7

d.

T	O
5	5
×	5
27	5

e.

T	O
3	2
×	2
6	4

f.

T	O
1	3
×	5
6	5

g.

T	O
2	6
×	3
7	8

h.

T	O
4	5
×	4
18	0

i.

T	O
2	4
×	5
12	0

j.

T	O
1	6
×	2
3	2

k.

T	O
1	5
×	3
4	5

l.

T	O
2	4
×	3
7	2



m.

T	O
2	4
×	4
9	6

n.

T	O
1	7
×	4
6	8

o.

T	O
4	8
×	5
24	0

p.

T	O
1	3
×	2
3	6

q.

T	O
1	2
×	5
6	0

r.

T	O
2	5
×	4
10	0

s.

T	O
1	2
×	3
3	6

t.

T	O
2	1
×	4
8	4

u.

T	O
3	0
×	4
12	0

v.

T	O
3	2
×	5
16	0

w.

T	O
1	4
×	5
7	0

x.

T	O
1	6
×	3
4	8

y.

T	O
2	5
×	2
5	0

z.

T	O
3	0
×	4
12	0

Word Problems

Exercise

Solve the following multiplication sums :

1. An insect has 8 legs. How many legs 5 insects have ?

T	O
	8
×	5
4	0

T	O
1	1
×	4
4	4

2. A gardener has planted 4 trees in a row. If there are 11 rows, how many trees are there altogether?

T	O
	6
×	5
3	0

3. There are 5 pencils in a pencil box. How many pencils are there in 6 boxes ?

T	O
1	0
×	2
2	0

4. There are 10 swings in the park. On each swing there are 2 children. Find the total number of children.

T	O
	6
×	3
1	8

5. A clock has 3 hands. How many hands are there in 6 such clocks.