

$$\begin{array}{r} j. \quad 9 \ 9 \ 4 \ 7 \ 6 \ 5 \\ -2 \ 5 \ 0 \ 5 \ 0 \ 4 \\ \hline 7 \ 4 \ 4 \ 2 \ 6 \ 1 \end{array}$$

$$\begin{array}{r} k. \quad 9 \ 8 \ 8 \ 7 \ 6 \ 5 \\ -3 \ 2 \ 5 \ 2 \ 3 \ 0 \\ \hline 6 \ 6 \ 3 \ 5 \ 3 \ 5 \end{array}$$

$$\begin{array}{r} l. \quad 9 \ 7 \ 6 \ 6 \ 7 \ 8 \\ -2 \ 3 \ 5 \ 5 \ 5 \ 2 \\ \hline 7 \ 4 \ 1 \ 1 \ 2 \ 6 \end{array}$$

Exercise-5.4

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

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

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

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

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

$$\begin{array}{r} f. \quad \text{TTh Th H T O} \\ 5 \ 0 \ 1 \ 2 \ 6 \\ -2 \ 9 \ 8 \ 5 \ 8 \\ \hline 2 \ 0 \ 2 \ 6 \ 8 \end{array}$$

$$\begin{array}{r} g. \quad 9 \ 0 \ 2 \ 1 \ 3 \ 2 \\ -8 \ 9 \ 8 \ 7 \ 8 \ 8 \\ \hline 8 \ 0 \ 3 \ 3 \ 4 \ 4 \end{array}$$

$$\begin{array}{r} h. \quad 5 \ 4 \ 1 \ 1 \ 2 \ 0 \\ -1 \ 7 \ 6 \ 9 \ 6 \ 9 \\ \hline 3 \ 6 \ 4 \ 1 \ 5 \ 1 \end{array}$$

$$\begin{array}{r} i. \quad 6 \ 1 \ 3 \ 1 \ 2 \ 2 \\ -2 \ 8 \ 7 \ 0 \ 9 \ 9 \\ \hline 3 \ 2 \ 6 \ 0 \ 2 \ 3 \end{array}$$

$$\begin{array}{r} j. \quad 5 \ 1 \ 2 \ 6 \ 8 \ 7 \\ -9 \ 9 \ 9 \ 9 \ 9 \\ \hline 4 \ 1 \ 2 \ 6 \ 8 \ 8 \end{array}$$

$$\begin{array}{r} k. \quad 5 \ 2 \ 6 \ 3 \ 8 \ 5 \\ -1 \ 9 \ 8 \ 9 \ 6 \ 8 \\ \hline 3 \ 2 \ 7 \ 4 \ 1 \ 7 \end{array}$$

$$\begin{array}{r} l. \quad 9 \ 7 \ 2 \ 1 \ 0 \ 0 \\ -6 \ 7 \ 6 \ 7 \ 8 \\ \hline 9 \ 0 \ 4 \ 4 \ 2 \ 2 \end{array}$$

$$\begin{array}{r} 2. \ a. \quad 5 \ 3 \ 8 \ 0 \ 2 \\ -2 \ 8 \ 7 \ 9 \ 7 \\ \hline 2 \ 5 \ 0 \ 0 \ 5 \end{array}$$

$$\begin{array}{r} b. \quad 9 \ 8 \ 4 \ 2 \ 3 \ 4 \\ -6 \ 3 \ 3 \ 5 \ 2 \ 3 \\ \hline 3 \ 5 \ 0 \ 7 \ 1 \ 1 \end{array}$$

$$\begin{array}{r} c. \quad 6 \ 7 \ 1 \ 7 \ 8 \\ -4 \ 6 \ 8 \ 9 \ 4 \\ \hline 2 \ 0 \ 2 \ 8 \ 4 \end{array}$$

$$\begin{array}{r} d. \quad 8 \ 8 \ 0 \ 6 \ 6 \ 1 \\ -6 \ 2 \ 5 \ 7 \ 7 \\ \hline 8 \ 1 \ 8 \ 0 \ 8 \ 4 \end{array}$$

$$\begin{array}{r} e. \quad 3 \ 5 \ 8 \ 6 \ 1 \ 8 \\ -2 \ 6 \ 3 \ 4 \ 4 \ 9 \\ \hline 0 \ 9 \ 5 \ 1 \ 6 \ 9 \end{array}$$

$$\begin{array}{r} f. \quad 6 \ 2 \ 9 \ 8 \ 7 \\ -4 \ 9 \ 6 \ 2 \ 4 \\ \hline 1 \ 3 \ 3 \ 6 \ 3 \end{array}$$

Mental Exercise

$$\begin{array}{r} a. \quad 9 \ 5 \ 2 \ ④ \ 5 \ 8 \\ -⑤ \ 0 \ 0 \ 1 \ ④ \ 7 \\ \hline 4 \ 5 \ 2 \ 3 \ 1 \ ① \end{array}$$

$$\begin{array}{r} b. \quad 2 \ ⑧ \ 9 \ 6 \ ④ \ 5 \\ -1 \ 8 \ ⑩ \ 0 \ 4 \ ④ \\ \hline 1 \ 0 \ 9 \ 6 \ 0 \ 1 \end{array}$$

$$\begin{array}{r} c. \quad 7 \ ⑨ \ 5 \ 7 \ 5 \ ② \\ -6 \ 7 \ 4 \ ③ \ 4 \ 1 \\ \hline ① \ 2 \ 1 \ 4 \ ① \ 1 \end{array}$$

Exercise 5.5

- $4522 - 1 = 4521$
- $92122 - 0 = 92122$
- $34212 - 34212 = 0$
- $53311 - 0 = 53311$
- $1100 + 0 = 1100 - 0 = 1100$
- $26000 - 0 = 26000$

Exercise-5.6

$$\begin{array}{r} \text{a.} \quad 5 \ 2 \ 4 \ 0 \ 7 \\ - 1 \ 4 \ 0 \ 4 \ 8 \\ \hline 3 \ 8 \ 3 \ 5 \ 9 \\ \hline \end{array}$$

Checking :

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

$$\begin{array}{r} \text{b.} \quad 5 \ 9 \ 2 \ 7 \ 0 \\ - 3 \ 2 \ 4 \ 9 \ 7 \\ \hline 2 \ 6 \ 7 \ 7 \ 3 \\ \hline \end{array}$$

Checking :

$$\begin{array}{r} 3 \ 2 \ 4 \ 9 \ 7 \\ - 2 \ 6 \ 7 \ 7 \ 3 \\ \hline 5 \ 9 \ 2 \ 7 \ 0 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c.} \quad 5 \ 7 \ 5 \ 5 \ 1 \\ - 1 \ 5 \ 2 \ 1 \ 5 \\ \hline 4 \ 2 \ 3 \ 3 \ 6 \\ \hline \end{array}$$

Checking :

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

$$\begin{array}{r} \text{d.} \quad 3 \ 7 \ 1 \ 9 \ 1 \ 1 \\ - 7 \ 4 \ 3 \ 6 \ 6 \\ \hline 2 \ 9 \ 7 \ 5 \ 4 \ 5 \\ \hline \end{array}$$

Checking :

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

$$\begin{array}{r} \text{e.} \quad 8 \ 0 \ 9 \ 4 \ 9 \\ - 7 \ 5 \ 1 \ 9 \ 0 \\ \hline 5 \ 7 \ 5 \ 9 \\ \hline \end{array}$$

Checking :

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

$$\begin{array}{r} \text{f.} \quad 5 \ 3 \ 5 \ 0 \ 8 \\ - 1 \ 8 \ 1 \ 8 \ 2 \\ \hline 3 \ 5 \ 3 \ 2 \ 6 \\ \hline \end{array}$$

Checking :

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

Exercise-5.7

$$\text{a.} \quad 45323 + 85673 - 55432$$

$$\begin{array}{r} 4 \ 5 \ 3 \ 2 \ 3 \\ + 8 \ 5 \ 6 \ 7 \ 3 \\ \hline 13 \ 0 \ 9 \ 9 \ 6 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \ 0 \ 9 \ 9 \ 6 \\ - 5 \ 5 \ 4 \ 3 \ 2 \\ \hline 7 \ 5 \ 5 \ 6 \ 4 \\ \hline \end{array}$$

$$\text{b.} \quad (85664 - 12131) + 3001$$

$$\begin{array}{r} 8 \ 5 \ 6 \ 6 \ 4 \\ - 1 \ 2 \ 1 \ 3 \ 1 \\ \hline 7 \ 3 \ 5 \ 3 \ 3 \\ \hline \end{array}$$

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

c. $78960 - (34113 + 28831)$

$$\begin{array}{r} 34113 \\ + 28831 \\ \hline 62944 \end{array} \qquad \begin{array}{r} 78960 \\ - 62944 \\ \hline 16016 \end{array}$$

d. $(6589 - 4112) + 9877$

$$\begin{array}{r} 6589 \\ - 4112 \\ \hline 2477 \end{array} \qquad \begin{array}{r} 2477 \\ + 9877 \\ \hline 12354 \end{array}$$

Exercise-5.8

1. Sameer made runs $12,506$
 Sachin made runs $- 3,934$
 $\hline 8572$

Sameer made 8,572 more runs than Sachin.

2. Total people $44,652$
 People moved away $- 2,689$
 $\hline 41,963$

3. Nishant had money $\text{₹ } 2,55,600$
 money withdraw $- \text{₹ } 98,300$
 $\hline \text{₹ } 1,57,300$

4. Apples harvested $45,221$
 Apples sold $- 12,313$
 $\hline 32,908$

5. Smallest 6-digit number 100000
 Largest 5-digit number $- 99999$
 $\hline 1$

6.
$$\begin{array}{r} 10000 \\ - 9543 \\ \hline 457 \end{array}$$

$\therefore 457$ is the number which is 9543 less than 10000.

Time To Fun

- $(2015-1790)$ 225 years ago
- $(2015-1620)$ 395 years ago
- $(2015-1940)$ 75 years ago
- $(2015-1903)$ 112 years ago
- $(2015-1981)$ 34 years ago

Exercise-6.1

1. a.

Th	H	T	O
	6	7	
	×	2	
1	3	4	

b.

Th	H	T	O
	7	1	3
	×	5	
3	5	6	5

c.

Th	H	T	O
	2	3	5
	×	7	
1	6	4	5

d.

Th	H	T	O
4	6	7	3
	×	2	
9	3	4	6

e.

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

f.

Th	H	T	O
	4	6	
	×	2	
3	2	2	
	9	2	
	×	×	
1	2	4	2

Exercise 6.2

1. a. $318 \times 0 = 0$

b. $9871 \times 0 = 0$

c. $28 \times 167 = 167 \times 28$

d. $2789 \times 928 = 928 \times 2789$

e. $138 \times (413 \times 644) = (138 \times 413) \times 644$

f. $527 \times (25 + 68) = 527 \times 25 + 527 \times 68$

Exercise 6.3

1. a. $67 \times 10 = 670$

b. $4679 \times 10 = 46790$

c. $79 \times 100 = 7900$

d. $486 \times 100 = 48600$

e. $829 \times 1000 = 829000$

f. $19 \times 1000 = 19000$

2. a. $91 \times 30 = (91 \times 3) \times 10$

$= 273 \times 10$

$= 2,730$

b. $218 \times 50 = (218 \times 5) \times 10$

$= 1090 \times 10$

$= 10,900$

c. $3122 \times 20 = (3122 \times 2) \times 10$

$= 6244 \times 10$

$= 62,440$

d. $630 \times 500 = (630 \times 5) \times 100$

$= 3150 \times 100$

$= 315,000$

e. $98 \times 200 = (98 \times 2) \times 100$

$= 196 \times 100$

$= 19,600$

f. $313 \times 400 = (313 \times 4) \times 100$

$= 1252 \times 100$

$= 1,25,200$

9	1
×	3
2	7

2	1	8
	×	5
1	0	9

3	1	2	2
	×	2	
6	2	4	4

6	3	0
	×	5
3	1	5

9	8
×	2
1	9

3	1	3
	×	4
1	2	5

$$\begin{aligned} \text{g. } 99 \times 4000 &= (99 \times 4) \times 1000 \\ &= 396 \times 1000 \\ &= 3,96,000 \end{aligned}$$

$$\begin{array}{r} 99 \\ \times 4 \\ \hline 396 \end{array}$$

$$\begin{aligned} \text{h. } 1203 \times 700 &= (1203 \times 7) \times 100 \\ &= 8421 \times 100 \\ &= 8,42,100 \end{aligned}$$

$$\begin{array}{r} 1203 \\ \times 7 \\ \hline 8421 \end{array}$$

$$\begin{aligned} \text{i. } 908 \times 6000 &= (908 \times 6) \times 1000 \\ &= 5448 \times 1000 \\ &= 5,44,80,000 \end{aligned}$$

$$\begin{array}{r} 908 \\ \times 6 \\ \hline 5448 \end{array}$$

3. a. $10 \times 20 \times 30 = (10 \times 20) \times 30 = 200 \times 30 = 6,000$
 b. $40 \times 30 \times 50 = (40 \times 30) \times 50 = 1200 \times 50 = 60,000$
 c. $10 \times 100 \times 4 = (10 \times 100) \times 4 = 1000 \times 4 = 4,000$
 d. $150 \times 10 \times 50 = (150 \times 10) \times 50 = 1500 \times 50 = 75,000$
 e. $120 \times 10 \times 20 = (120 \times 10) \times 20 = 1200 \times 20 = 24,000$
 f. $50 \times 60 \times 90 = (50 \times 60) \times 90 = 3000 \times 90 = 2,70,000$

Exercise 6.4

1. a.
$$\begin{array}{r} 891 \\ \times 49 \\ \hline 8019 \\ 3564 \times \\ \hline 43659 \end{array}$$

b.
$$\begin{array}{r} 1325 \\ \times 92 \\ \hline 2650 \\ 11925 \times \\ \hline 121900 \end{array}$$

c.
$$\begin{array}{r} 651 \\ \times 147 \\ \hline 4557 \\ 2604 \times \\ 651 \times \times \\ \hline 95697 \end{array}$$

2. a.
$$\begin{array}{r} 648 \\ \times 27 \\ \hline 4536 \\ 1296 \times \\ \hline 17496 \end{array}$$

b.
$$\begin{array}{r} 1555 \\ \times 45 \\ \hline 7775 \\ 6220 \times \\ \hline 69975 \end{array}$$

c.
$$\begin{array}{r} 2936 \\ \times 98 \\ \hline 23488 \\ 26424 \times \\ \hline 287728 \end{array}$$

d.
$$\begin{array}{r} 5643 \\ \times 57 \\ \hline 39501 \\ 28215 \times \\ \hline 321651 \end{array}$$

e.
$$\begin{array}{r} 224 \\ \times 124 \\ \hline 896 \\ 448 \times \\ 224 \times \times \\ \hline 27776 \end{array}$$

f.
$$\begin{array}{r} 217 \\ \times 731 \\ \hline 217 \\ 651 \times \\ 1519 \times \times \\ \hline 158627 \end{array}$$

g.
$$\begin{array}{r} 5724 \\ \times 142 \\ \hline 11448 \\ 22896 \times \\ 5724 \times \times \\ \hline 812808 \end{array}$$

h.
$$\begin{array}{r} 3134 \\ \times 276 \\ \hline 18804 \\ 21938 \times \\ 6268 \times \times \\ \hline 864984 \end{array}$$

i.
$$\begin{array}{r} 430 \\ \times 456 \\ \hline 2580 \\ 2150 \times \\ 1720 \times \times \\ \hline 196080 \end{array}$$

$$\begin{array}{r}
 892 \\
 \times 378 \\
 \hline
 7136 \\
 6244 \times \\
 2676 \times \times \\
 \hline
 337176
 \end{array}$$

$$\begin{array}{r}
 589 \\
 \times 568 \\
 \hline
 4712 \\
 3534 \times \\
 2945 \times \times \\
 \hline
 334552
 \end{array}$$

$$\begin{array}{r}
 837 \\
 \times 478 \\
 \hline
 6696 \\
 5859 \times \\
 3348 \times \times \\
 \hline
 400086
 \end{array}$$

Exercise 6.5

1. \therefore Cost of 1 printer = ₹ 1685
 \therefore Cost of 32 printers = ₹ 1685 \times 32
= ₹ 53,920
So, the cost of 32 printers is ₹ 53,920.

$$\begin{array}{r}
 1685 \\
 \times 32 \\
 \hline
 3370 \\
 5055 \times \\
 \hline
 53920
 \end{array}$$

2. \therefore The weight of 1 packet = 485 grams
 \therefore The weight of 54 packets = 485 \times 54
= 26,190 grams
So, the total weight of 54 packets is 26,190 grams.

$$\begin{array}{r}
 485 \\
 \times 54 \\
 \hline
 1940 \\
 2425 \times \\
 \hline
 26190
 \end{array}$$

3. The monthly fees of each student = ₹ 4630
The yearly fees of each student = ₹ 4630 \times 12
= ₹ 55,560
So, a student will pay ₹ 55,560 in one year.

$$\begin{array}{r}
 4630 \\
 \times 12 \\
 \hline
 9260 \\
 4630 \times \\
 \hline
 55560
 \end{array}$$

4. \therefore The weight of 1 sugar bag = 240 kg
 \therefore The weight of 673 sugar bags = 673 \times 240 kg
= 1,61,520 kg.

$$\begin{array}{r}
 673 \\
 \times 240 \\
 \hline
 000 \\
 2692 \times \\
 1346 \times \times \\
 \hline
 161520
 \end{array}$$

5. \therefore The distance travelled in one hour = 182 km.
 \therefore The distance travelled in 235 hours = 182 \times 235
= 42,770 km.
So, the train can travel 42,770 km. in 235 hours.

$$\begin{array}{r}
 182 \\
 \times 235 \\
 \hline
 910 \\
 546 \times \\
 364 \times \times \\
 \hline
 42770
 \end{array}$$

6. \therefore Number of persons in a cinema hall = 1825
 \therefore Number of persons in 210 cinema halls = 1825 \times 210
= 3,83,250
So, 3,83,250 persons can sit in 210 cinema halls.

$$\begin{array}{r}
 1825 \\
 \times 210 \\
 \hline
 0000 \\
 1825 \times \\
 3650 \times \times \\
 \hline
 383250
 \end{array}$$

7. \therefore Cost of 1 bicycle = ₹ 665
 \therefore Cost of 285 bicycles = ₹ 665×285
 $= ₹ 1,89,525$
 So, the dealer pays ₹ 1,89,525 for 285 bicycles.

				6	6	5	
				×	2	8	5
			3	3	2	5	
		5	3	2	0	×	
1	3	3	0	×	×		
1	8	9	5	2	5		

8. \therefore The cost of 1 transistor set = ₹ 257
 \therefore The cost of 352 transistor sets = ₹ 257×352
 $= ₹ 90,464$
 So, the cost of 352 transistor sets is ₹ 90,464

				2	5	7	
				×	3	5	2
			5	1	4		
	1	2	8	5	×		
7	7	1	×	×			
9	0	4	6	4			

9. \therefore Number of tins produced in 1 day = 568
 \therefore Number of tins produced in 297 days = 568×297
 $= 1,68,696$
 So, 1,68,696 tins will be produced in 297 working days.

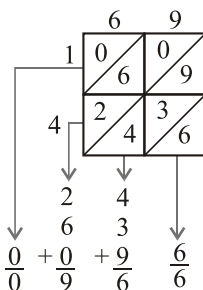
				5	6	8	
				×	2	9	7
			3	9	7	6	
	5	1	1	2	×		
1	1	3	6	×	×		
1	6	8	6	9	6		

10. \therefore Fees paid by 1 pupil = ₹ 155
 \therefore Fees paid by 520 pupils = ₹ 155×520
 $= ₹ 80,600$
 So, the total amount of fees received per month is ₹ 80,600.

				1	5	5	
				×	5	2	0
			0	0	0		
	3	1	0	×			
7	7	5	×	×			
8	0	6	0	0			

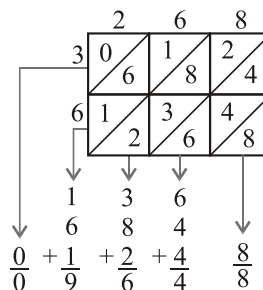
Exercise 6.6

1. a.



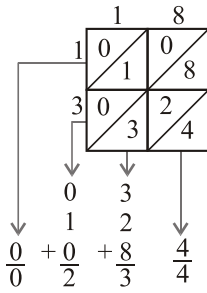
- \therefore The product is 966.

- b.



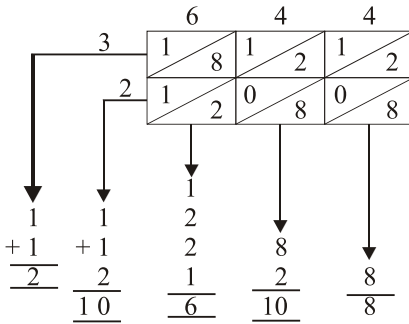
- \therefore The product is 9648.

2. a.

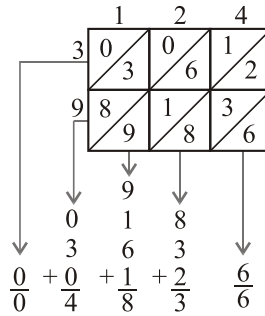


$\therefore 13 \times 18 = 234$

c.



b.



$\therefore 124 \times 39 = 4836$

MCQs

1. b. 2. c. 3. b. 4. b. 5. b.

Time To Fun

$25 \times 10 = 250$ $50 \times 10 = 500$ $485 \times 10 = 4850$
 $558 \times 80 = 44640$ $5689 \times 2 = 11378$ $485 \times 18 = 8730$
 $6000 \times 20 = 120000$ $789 \times 458 = 361362$ $258 \times 425 = 109650$
 $254 \times 58 = 14732$ $505 \times 144 = 72720$ $54 \times 14 = 756$
 $102 \times 400 = 40800$ $31 \times 57 = 1767$
 $248 \times 578 = 143344$ $888 \times 21 = 18648$ $418 \times 125 = 52250$
 $75 \times 100 = 7500$
 $25 \times 25 = 625$
 $279 \times 557 = 155403$

Finish