

Class: III Sub: Maths
6. Multiplication

classmate

Date

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Practise 6.2

Fill in the blanks:

1. $4 \times 7 = 32$

eg $7 + 7 + 7 + 7 = 32$

2. $16 \times 3 = 48$

$16 + 16 + 16 = 48$

① $\begin{array}{r} 16 \\ \times 3 \\ \hline 48 \end{array}$

first multiply the ones
second the tens
and add the carry

3. $3 \times 5 = 15$

4. $13 \times 7 = 91$ ②

$\begin{array}{r} 13 \\ \times 7 \\ \hline 91 \end{array}$

5. $19 \times 8 = 152$

③ $\begin{array}{r} 19 \\ \times 8 \\ \hline 152 \end{array}$

6 $20 \times 6 = 120$

7 18×4
③
18
x 4
72

8 $9 \times 9 = 81$

9 $13 \times 3 = 39$

10 $15 \times 7 = 105$

Practise 6.3

multiply:

1. 307×4

②
3 0 7
x 4
1228

2 315
①
x 3
945

Multiply the ones

$5 \times 3 = 15$ ones

Regroup 15 ones = 1 ten + 5 ones

$1 \times 3 = 3$ tens ✓

Total tens = 3 tens + 1 ten = 4 tens

$$\begin{array}{r} \textcircled{1} \\ 3 \quad 2 \quad 2 \quad 4 \\ \times \quad \quad 4 \\ \hline 8 \quad 9 \quad 6 \end{array}$$

$$4 \times 4 = 16 \text{ ones}$$

$$16 \text{ ones} = 1 \text{ ten} + 6 \text{ ones}$$

$$2 \times 4 = 8 \text{ tens} + 4 \text{ tens} = 9 \text{ tens}$$

$$\begin{array}{r} \textcircled{1} \quad \textcircled{7} \\ 4 \quad 1 \quad 1 \quad 9 \\ \times \quad \quad 8 \\ \hline 9 \quad 5 \quad 2 \end{array}$$

$$9 \times 8 = 72 \text{ ones}$$

$$72 \text{ ones} = 7 \text{ tens} + 2 \text{ ones}$$

$$1 \times 8 = 8 + 7 = 15 \text{ tens}$$

$$15 \text{ tens} = 1 \text{ hundred} + 5 \text{ tens}$$

$$1 \times 8 = 8 + 1 = 9$$

$$\begin{array}{r} \textcircled{2} \quad \textcircled{4} \\ 5 \quad 4 \quad 3 \quad 7 \\ \times \quad \quad 6 \\ \hline 2 \quad 6 \quad 2 \quad 2 \end{array}$$

$$\begin{array}{r} \textcircled{2} \\ \textcircled{7} \quad 1 \quad 1 \quad 5 \\ \times \quad \quad 5 \\ \hline 5 \quad 7 \quad 5 \end{array}$$

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

$$\begin{array}{r} \textcircled{8} \quad \textcircled{2} \quad \textcircled{1} \\ \textcircled{7} \quad 2 \quad 8 \quad 5 \\ \times \quad \quad 3 \\ \hline 8 \quad 5 \quad 5 \end{array}$$

$$\begin{array}{r} \textcircled{1} \\ 9 \quad 2 \quad 3 \quad 6 \\ \times \quad \quad 2 \\ \hline 4 \quad 7 \quad 2 \end{array}$$

$$\begin{array}{r} \textcircled{10} \\ 2 \quad 1 \quad 0 \\ \times \quad \quad 4 \\ \hline 8 \quad 4 \quad 0 \end{array}$$

Practise 6.4

Find the products:

1. $27 \times 10 =$

$27 \times 1 \text{ ten} = 27 \text{ ten} = 270$

2. 386×10

$386 \times 1 \text{ ten} = 386 \text{ ten} = 3860$

3. 45×100

$45 \times 1 \text{ hundred} = 45 \text{ hundred}$
 $= 4500$

4. 37×100

$37 \times 1 \text{ hundred} = 37 \text{ hundred}$
 $= 3700$

5. 9×1000

$9 \times 1 \text{ thousand} = 9 \text{ thousand}$
 $= 9000$

6. 2×1000

$2 \times 1 \text{ thousand} = 2 \text{ thousand}$
 $= 2000$

7 62×20

$= 62 \times 2 \text{ tens} = 124 \text{ tens}$

$= 1240$

8 61×60

$= 61 \times 6 \text{ tens} = 366 \text{ tens}$

$= 3660$

9 16×400

$= 16 \times 4 \text{ hundred} = 64 \text{ hundred}$

$= 6400$

10 18×500

$= 18 \times 5 \text{ hundred} = 90 \text{ hundred}$

$= 9000$

11 $14 \times 500 =$

$= 14 \times 5 \text{ hundred} = 70 \text{ hundred}$

$= 7000$

12 11×300

$= 11 \times 3 \text{ hundred} = 3300$

Practise 6.5

1) $37 \times 10 = 370$

2) 88×16

Th H T O

④

8 8

 $\times 16$ $\underline{528}$ ← 88×6 + $\underline{880}$ ← 88×10

1408

3) 52×32

Th H T O

5 2

 $\times 32$ $\underline{104}$ ← 52×2 + $\underline{1560}$ ← 52×30

1664

4) 72×38

Th H T O

①

7 2

 $\times 38$ $\underline{576}$ + $\underline{2160}$

5 92×21

Th H T O

$$\begin{array}{r}
 92 \\
 \times 21 \\
 \hline
 92 \\
 184 \textcircled{\times} \\
 \hline
 1932
 \end{array}$$

6 87×45

$$\begin{array}{r}
 87 \\
 \times 45 \\
 \hline
 435 \\
 348 \textcircled{\times} \\
 \hline
 3915
 \end{array}$$

$$\begin{array}{r}
 \textcircled{7} \quad 49 \\
 \times 64 \\
 \hline
 196 \\
 294 \textcircled{\times} \\
 \hline
 2136
 \end{array}$$

8 52

$$\begin{array}{r}
 52 \\
 \times 12 \\
 \hline
 104 \\
 52 \\
 \hline
 624
 \end{array}$$

$$\begin{array}{r}
 \textcircled{9} \quad 250 \\
 \times 23 \\
 \hline
 750 \\
 500 \\
 \hline
 5750
 \end{array}$$

\textcircled{10} 507

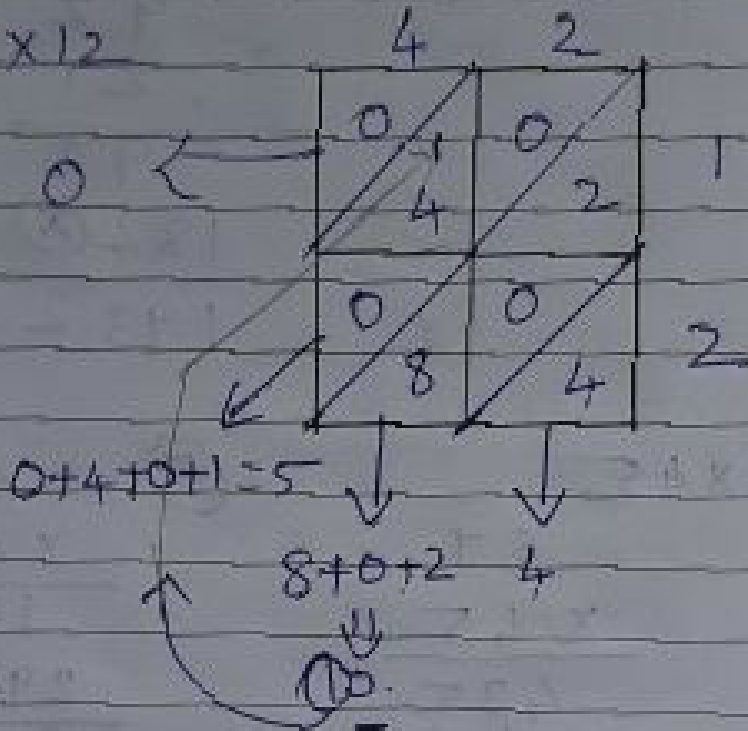
$$\begin{array}{r}
 507 \\
 \times 24 \\
 \hline
 2028 \\
 1014 \textcircled{\times} \\
 \hline
 12168
 \end{array}$$

\textcircled{11} 204

$$\begin{array}{r}
 204 \\
 \times 23 \\
 \hline
 612 \\
 408 \textcircled{\times} \\
 \hline
 4692
 \end{array}$$

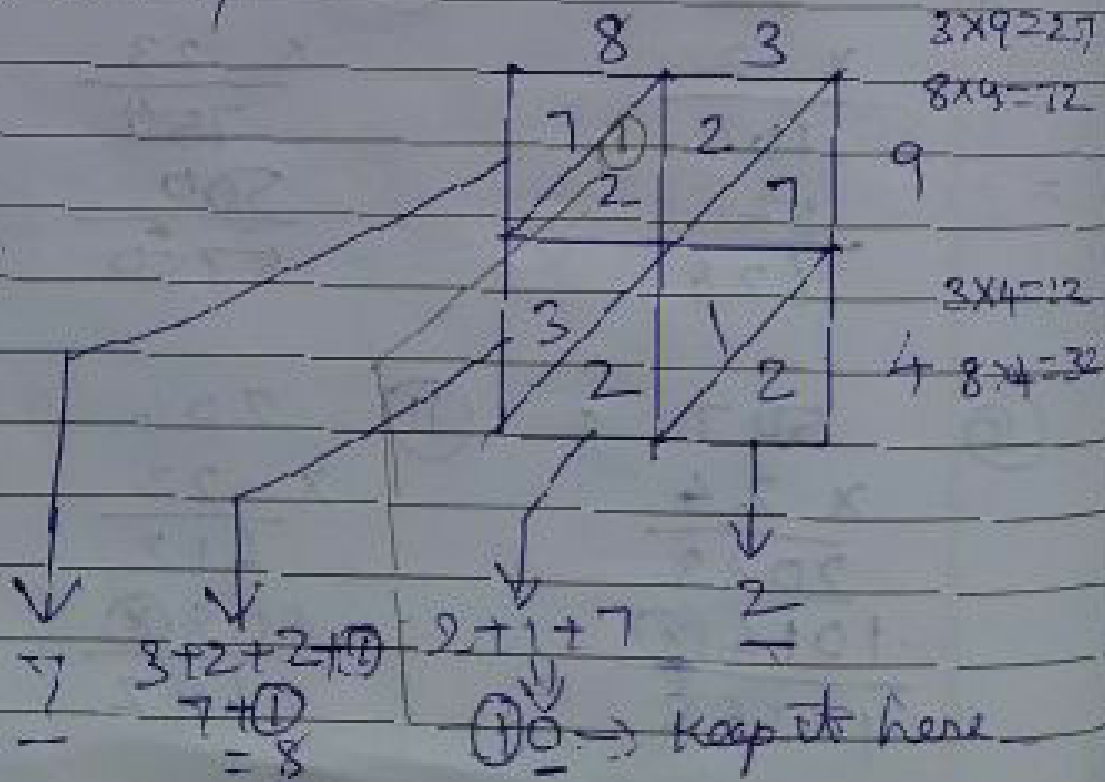
Practise 6.6

D 42 x 12



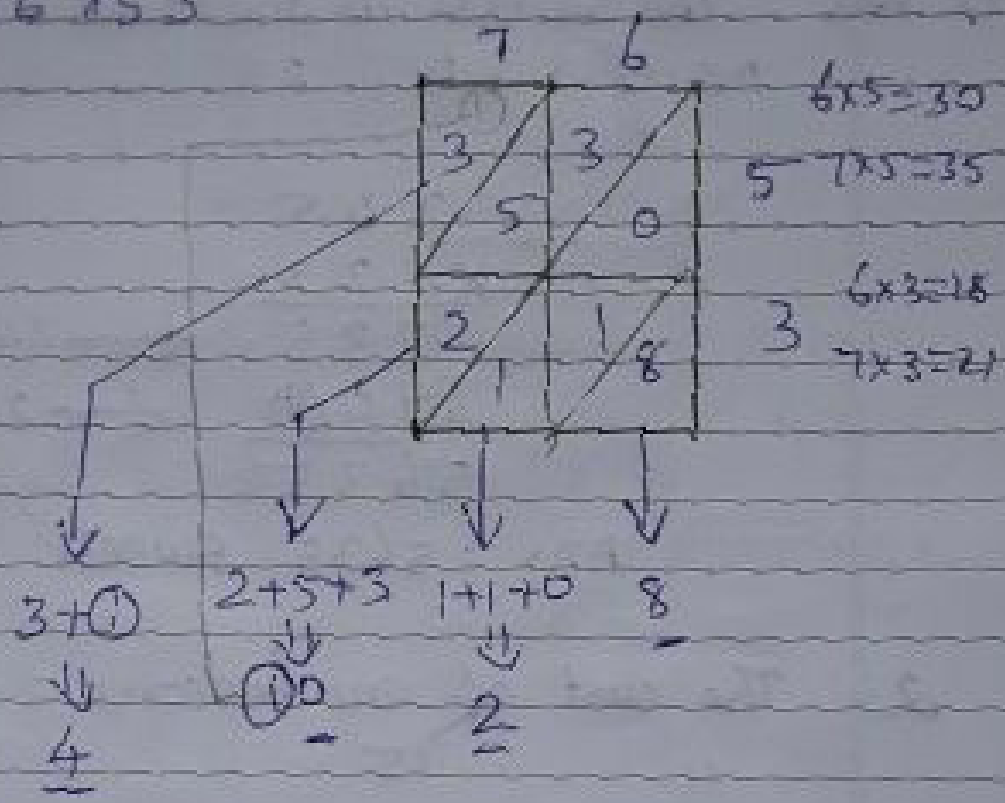
0504

2 83 x 94



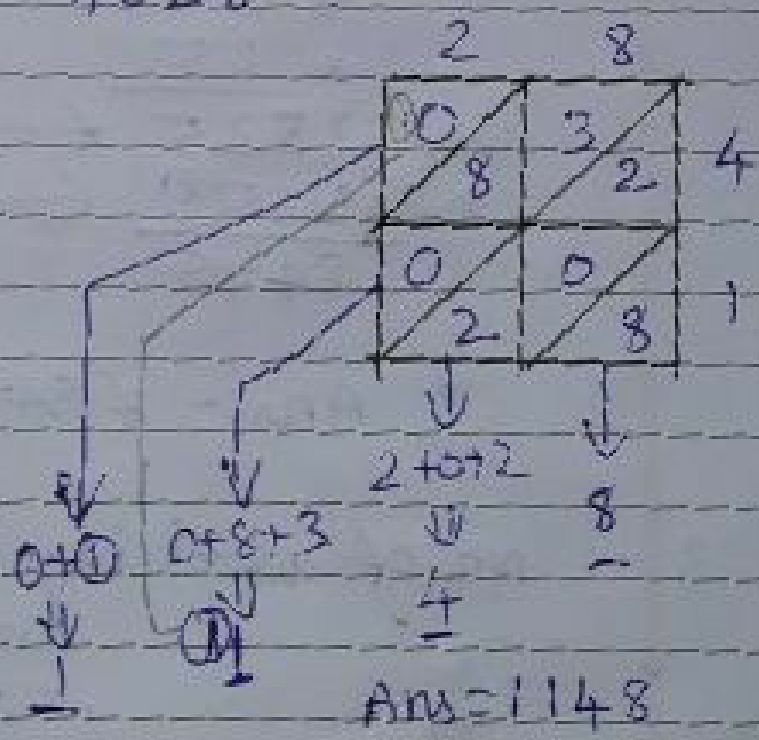
Ans = 7802

3 76 x 53



Ans = 4028

4 28 x 41



Practise 6.7

- 1) Ans. The sweets in one packet = 245
 no of sweets " 23 " = 245×23

$$\begin{array}{r}
 245 \\
 \times 23 \\
 \hline
 735 \quad \leftarrow 245 \times 3 \\
 490 \text{ (X)} \quad \leftarrow 245 \times 2 \\
 \hline
 5635
 \end{array}$$

Ans = 5635 sweets

2. The cost of one bedcover = ₹ 565
 " " 15 " = 565×15

$$\begin{array}{r}
 565 \\
 \times 15 \\
 \hline
 2825 \quad \leftarrow 565 \times 5 \\
 565 \text{ (X)} \quad \leftarrow 565 \times 1 \\
 \hline
 8475
 \end{array}$$

Ans = ₹ 8475

3. No of wheat bag carried on
 " " " " " one truck = 96
 " " " " " 32 trucks = 96×32

$$\begin{array}{r}
 96 \\
 \times 32 \\
 \hline
 192 \quad \leftarrow 96 \times 2 \\
 2880 \quad \leftarrow 96 \times 3 \\
 \hline
 3072
 \end{array}$$

Ans = 3072 bags

4 The amount per student = ₹ 125

NO of students = 42

Total amount collected by

all = ₹ 125 × 42

$$\begin{array}{r}
 125 \\
 \times 42 \\
 \hline
 250 \quad \leftarrow 125 \times 2 \\
 5000 \quad \leftarrow 125 \times 4 \\
 \hline
 5250
 \end{array}$$

Ans = ₹ 5250

5 The price of an electric fan = ₹ 584

no of fan in one dozen = 12

Total amount = ₹ 584 × 12

$$\begin{array}{r}
 584 \\
 \times 12 \\
 \hline
 1168 \quad \leftarrow 584 \times 2 \\
 5840 \quad \leftarrow 584 \times 10 \\
 \hline
 7008
 \end{array}$$

Ans = ₹ 7008

- 6 no. of coaches in a train = 28
 no. of seats in each coach = 72
 Total no. of seats = 28×72

$$\begin{array}{r} 28 \\ \times 72 \\ \hline 56 \leftarrow 28 \times 2 \\ 196 \textcircled{\times} \leftarrow 28 \times 7 \\ \hline 2016 \end{array}$$

Ans = 2016 seats

- 7 NO of books in a carton = 68
 NO of " " 64 " = 68×64

$$\begin{array}{r} 68 \\ \times 64 \\ \hline 272 \leftarrow 68 \times 4 \\ 408 \textcircled{\times} \leftarrow 68 \times 6 \\ \hline 4352 \end{array}$$

Ans = 4352 books

Note: Rest of the questions solve by your self