



More Multiplication

Exercise-1

$$\begin{array}{r} 1. \quad 342 \\ \times 2 \\ \hline 684 \end{array}$$

$$\begin{array}{r} 2. \quad 234 \\ \times 2 \\ \hline 468 \end{array}$$

$$\begin{array}{r} 3. \quad 112 \\ \times 4 \\ \hline 448 \end{array}$$

$$\begin{array}{r} 4. \quad 322 \\ \times 3 \\ \hline 966 \end{array}$$

$$\begin{array}{r} 5. \quad 433 \\ \times 2 \\ \hline 866 \end{array}$$

$$\begin{array}{r} 6. \quad 303 \\ \times 3 \\ \hline 909 \end{array}$$

Exercise-2

$$\begin{array}{r} 1. \quad \textcircled{2} \\ 315 \\ \times 5 \\ \hline 1575 \end{array}$$

$$\begin{array}{r} 2. \quad \textcircled{1}\textcircled{2} \\ 225 \\ \times 4 \\ \hline 900 \end{array}$$

$$\begin{array}{r} 3. \quad \textcircled{3}\textcircled{3} \\ 177 \\ \times 5 \\ \hline 885 \end{array}$$

$$\begin{array}{r} 4. \quad \textcircled{2}\textcircled{3} \\ 947 \\ \times 5 \\ \hline 4735 \end{array}$$

$$\begin{array}{r} 5. \quad \textcircled{2}\textcircled{2} \\ 865 \\ \times 4 \\ \hline 3460 \end{array}$$

$$\begin{array}{r} 6. \quad \textcircled{2}\textcircled{4} \\ 935 \\ \times 8 \\ \hline 7480 \end{array}$$

Exercise-3

$$\begin{array}{r} 1. \quad \begin{array}{r} 142 \\ \times 12 \\ \hline 284 \\ + 1420 \\ \hline 1704 \end{array} \end{array}$$

$$\begin{array}{r} 2. \quad \begin{array}{r} 213 \\ \times 23 \\ \hline 639 \\ + 4260 \\ \hline 4899 \end{array} \end{array}$$

$$\begin{array}{r} 3. \quad \begin{array}{r} 202 \\ \times 11 \\ \hline 202 \\ + 2020 \\ \hline 2222 \end{array} \end{array}$$

$$\begin{array}{r} 4. \quad \begin{array}{r} 332 \\ \times 13 \\ \hline 996 \\ + 3320 \\ \hline 4316 \end{array} \end{array}$$

$$\begin{array}{r} 5. \quad \begin{array}{r} 201 \\ \times 34 \\ \hline 804 \\ + 6030 \\ \hline 6834 \end{array} \end{array}$$

$$\begin{array}{r} 6. \quad \begin{array}{r} 204 \\ \times 22 \\ \hline 408 \\ + 4080 \\ \hline 4488 \end{array} \end{array}$$

$$\begin{array}{r}
 7. \quad \begin{array}{r} 333 \\ \times 23 \\ \hline 999 \\ + 6660 \\ \hline 7659 \end{array}
 \end{array}$$

$$\begin{array}{r}
 8. \quad \begin{array}{r} 222 \\ \times 24 \\ \hline 888 \\ + 4440 \\ \hline 5328 \end{array}
 \end{array}$$

$$\begin{array}{r}
 9. \quad \begin{array}{r} 312 \\ \times 32 \\ \hline 624 \\ + 9360 \\ \hline 9984 \end{array}
 \end{array}$$

Exercise-4

$$\begin{array}{r}
 1. \quad \begin{array}{r} 234 \\ \times 15 \\ \hline 1170 \leftarrow 234 \times 5 \text{ ones} \\ + 2340 \leftarrow 234 \times 1 \text{ ten} \\ \hline 3510 \leftarrow \text{Sum of the products} \end{array}
 \end{array}$$

$$\begin{array}{r}
 2. \quad \begin{array}{r} 325 \\ \times 29 \\ \hline 2925 \\ + 6500 \\ \hline 9425 \end{array}
 \end{array}$$

$$\begin{array}{r}
 3. \quad \begin{array}{r} 278 \\ \times 31 \\ \hline 278 \\ + 8340 \\ \hline 8618 \end{array}
 \end{array}$$

$$\begin{array}{r}
 4. \quad \begin{array}{r} 455 \\ \times 18 \\ \hline 3640 \\ + 4550 \\ \hline 8190 \end{array}
 \end{array}$$

$$\begin{array}{r}
 5. \quad \begin{array}{r} 618 \\ \times 12 \\ \hline 1236 \\ + 6180 \\ \hline 7416 \end{array}
 \end{array}$$

$$\begin{array}{r}
 6. \quad \begin{array}{r} 703 \\ \times 14 \\ \hline 2812 \\ + 7030 \\ \hline 9842 \end{array}
 \end{array}$$

$$\begin{array}{r}
 7. \quad \begin{array}{r} 118 \\ \times 67 \\ \hline 826 \\ + 7080 \\ \hline 7906 \end{array}
 \end{array}$$

$$\begin{array}{r}
 8. \quad \begin{array}{r} 285 \\ \times 32 \\ \hline 570 \\ + 8550 \\ \hline 9120 \end{array}
 \end{array}$$

$$\begin{array}{r}
 9. \quad \begin{array}{r} 556 \\ \times 15 \\ \hline 2780 \\ + 5560 \\ \hline 8340 \end{array}
 \end{array}$$

$$\begin{array}{r}
 10. \quad \begin{array}{r} 705 \\ \times 13 \\ \hline 2115 \\ + 7050 \\ \hline 9165 \end{array}
 \end{array}$$

$$\begin{array}{r}
 11. \quad \begin{array}{r} 628 \\ \times 15 \\ \hline 3140 \\ + 6280 \\ \hline 9420 \end{array}
 \end{array}$$

$$\begin{array}{r}
 12. \quad \begin{array}{r} 272 \\ \times 36 \\ \hline 1632 \\ + 8160 \\ \hline 9792 \end{array}
 \end{array}$$

Fun Time

(a) $112 \times 11 = 1 \boxed{1+1} \boxed{1+2} 2 = 1232$

(b) $145 \times 11 = 1 \boxed{1+4} \boxed{4+5} 5 = 1595$

Exercise-5

1. Number of apples in a box = 117

$$\therefore \text{Total number of apples in 6 boxes} = 117 \times 6 = 702$$

$$\begin{array}{r} \textcircled{1} \textcircled{4} \\ 117 \\ \times 6 \\ \hline 702 \end{array}$$

Thus, there are 702 apples in 6 boxes.

2. Weight of one bag of rice = 125 kg

$$\text{Total weight of 8 bags of rice} = 125 \text{ kg} \times 8 = 1000 \text{ kg}$$

$$\begin{array}{r} \textcircled{2} \textcircled{4} \\ 125 \\ \times 8 \\ \hline 1000 \end{array}$$

Thus, the total weight of 8 bags of rice is 1000 kg.

3. The greatest 2-digit number = 99

$$\therefore 101 \times 99 = 9999$$

$$\begin{array}{r} 101 \\ \times 99 \\ \hline 909 \\ + 9090 \\ \hline 9999 \end{array}$$

4. A box full has 145 balls.

$$\therefore \text{Number of balls in 65 boxes} = 145 \times 65 = 9425$$

So, there will be 9425 balls in 65 boxes.

$$\begin{array}{r} 145 \\ \times 65 \\ \hline 725 \\ + 8700 \\ \hline 9425 \end{array}$$

5. A vegetable seller earns ₹ 575 daily.

$$\therefore \text{Earnings of the vegetable seller of 16 days}$$

$$= ₹ 575 \times 16$$

$$= ₹ 9200$$

So, the vegetable seller will earn ₹ 9200 in 16 days.

$$\begin{array}{r} 575 \\ \times 16 \\ \hline 3450 \\ + 5750 \\ \hline 9200 \end{array}$$

6. Mr Roy sells a shirt for ₹ 295.

$$\text{He will sell 32 shirts for } ₹ 295 \times 32 = ₹ 9440$$

So, Mr Roy will get ₹ 9440 for 32 shirts.

$$\begin{array}{r} 295 \\ \times 32 \\ \hline 590 \\ + 8800 \\ \hline 9440 \end{array}$$

7. The school library has 8 cupboards. Each cupboard has 155 books.

$$\therefore \text{Total number of books in the library} = 155 \times 8$$

$$= 1240$$

$$\begin{array}{r} \textcircled{4} \textcircled{4} \\ 1 \ 5 \ 5 \\ \times \ 8 \\ \hline 1 \ 2 \ 4 \ 0 \end{array}$$

So, total number of books in the library is 1240.

8. Weight of 1 book = 556 g

$$\therefore \text{Weight of 7 books together} = (556 \times 7) \text{ g}$$

$$= 3892 \text{ g}$$

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

So, the total weight of 7 books is 3892 g.

Fun Time

$$9 \times 555 = 4995$$

$$9 \times 666 = 5994$$

Review Exercise

1. (a) $\begin{array}{r} \textcircled{1} \textcircled{5} \textcircled{2} \\ 1 \ 8 \ 3 \\ \times \ 7 \\ \hline 1 \ 2 \ 8 \ 1 \end{array}$

(b) $\begin{array}{r} \textcircled{1} \textcircled{3} \textcircled{2} \\ 3 \ 7 \ 4 \\ \times \ 5 \\ \hline 1 \ 8 \ 7 \ 0 \end{array}$

(c) $\begin{array}{r} \textcircled{1} \textcircled{3} \\ 1 \ 1 \ 5 \\ \times \ 7 \\ \hline 8 \ 0 \ 5 \end{array}$

2. (a) $\begin{array}{r} 2 \ 3 \ 5 \\ \times \ 1 \ 3 \\ \hline 7 \ 0 \ 5 \\ + \ 2 \ 3 \ 5 \ 0 \\ \hline 3 \ 0 \ 5 \ 5 \end{array}$

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

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

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

(e) $\begin{array}{r} 1 \ 1 \ 8 \\ \times \ 1 \ 5 \\ \hline 5 \ 9 \ 0 \\ + \ 1 \ 1 \ 8 \ 0 \\ \hline 1 \ 7 \ 7 \ 0 \end{array}$

(f) $\begin{array}{r} 1 \ 1 \ 4 \\ \times \ 2 \ 2 \\ \hline 2 \ 2 \ 8 \\ + \ 2 \ 2 \ 8 \ 0 \\ \hline 2 \ 5 \ 0 \ 8 \end{array}$

3. Number of pages in one book = 147
 $\therefore$ Number of pages in 35 books = 147×35
 $= 5145$

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

So, there are 5145 pages.

4. Cost of one packet of balls = ₹ 110
 $\therefore$ Total cost of 25 packets of balls = ₹ (110×25)
 = ₹ 2750

$$\begin{array}{r} 110 \\ \times 25 \\ \hline 550 \\ + 2200 \\ \hline 2750 \end{array}$$

So, total cost of 25 packets of balls is ₹ 2750.

5. Number of mangoes in a box = 255

$\therefore$ Total number of mangoes in 7 boxes = $255 \times 7 = 1785$

$$\begin{array}{r} 255 \\ \times 7 \\ \hline 1785 \end{array}$$

Thus, there will be 1785 mangoes in 7 such boxes.

6. Money saved by Adil in a week = ₹ 175

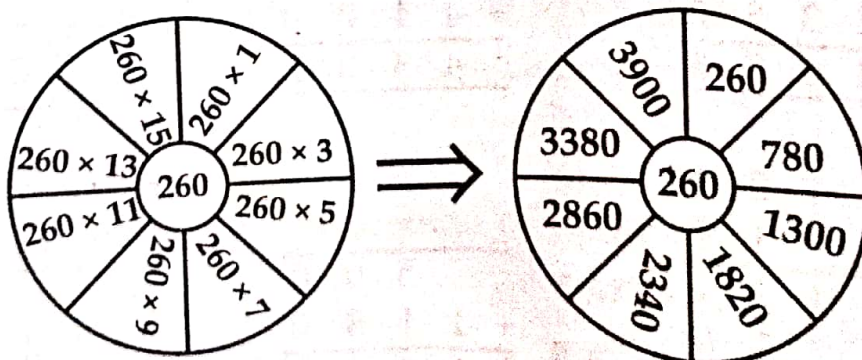
$\therefore$ Money saved by Adil in a year = ₹ $175 \times 52 = ₹ 9100$

$$\begin{array}{r} 175 \\ \times 52 \\ \hline 350 \\ + 8750 \\ \hline 9100 \end{array}$$

Thus, Adil saves ₹ 9100 in a year. Yes, saving is good.

HOTS

We see that :



So, the missing numbers are 1300 and 3380.