

CLASS- 4th

SUBJECT- MATHEMATICS

Ex. 3.5.

Q1- Find the product.

(a) 1346×8

$$\begin{array}{r} 1346 \\ \times 8 \\ \hline 10768 \end{array}$$

(b) 2104×6

$$\begin{array}{r} 2104 \\ \times 6 \\ \hline 12624 \end{array}$$

(c) 3261×5

$$\begin{array}{r} 3261 \\ \times 5 \\ \hline 16305 \end{array}$$

(d) 4789×3

$$\begin{array}{r} 4789 \\ \times 3 \\ \hline 14367 \end{array}$$

(e) 1029×9

$$\begin{array}{r} 1029 \\ \times 9 \\ \hline 9261 \end{array}$$

Q2- Multiply using expanded form and verify the result by actual multiplication.

$$\begin{aligned} (a) \quad 3156 \times 8 &= (3000 + 100 + 50 + 6) \times 8 \\ &= 3000 \times 8 + 100 \times 8 + 50 \times 8 + 6 \times 8 \\ &= 24000 + 800 + 400 + 48 \\ &= 25248 \end{aligned}$$

Verification: By actual multiplication.

$$\begin{array}{r} 3156 \\ \times 8 \\ \hline 25248 \end{array}$$

$$\begin{aligned} (b) \quad 6259 \times 3 &= (6000 + 200 + 50 + 9) \times 3 \\ &= 6000 \times 3 + 200 \times 3 + 50 \times 3 + 9 \times 3 \\ &= 18000 + 600 + 150 + 27 \\ &= 18777 \end{aligned}$$

Verification - By actual multiplication.

$$\begin{array}{r} 6259 \\ \times 3 \\ \hline 18777 \end{array}$$

$$\begin{aligned} \text{(c)} \quad 8012 \times 4 &= (8000 + 10 + 2) \times 4 \\ &= 8000 \times 4 + 10 \times 4 + 2 \times 4 \\ &= 32000 + 40 + 8 \\ &= 32048 \end{aligned}$$

Verification:- By actual multiplication.

$$\begin{array}{r} 8012 \\ \times 4 \\ \hline 32048 \end{array}$$

$$\begin{aligned} \text{(d)} \quad 4789 \times 3 &= (4000 + 700 + 80 + 9) \times 3 \\ &= 4000 \times 3 + 700 \times 3 + 80 \times 3 + 9 \times 3 \\ &= 12000 + 2100 + 240 + 27 \\ &= 14367 \end{aligned}$$

Verification:- By actual multiplication.

$$\begin{array}{r} 4789 \\ \times 3 \\ \hline 14367 \end{array}$$

Note :- Do Q1- (e), (f), (g) and Q2 (e), (f), (g), (h) parts in homework.