



Exercise 3C

(vi) First, we will multiply 387 by 125.

$$\begin{array}{r} 387 \\ \times 125 \\ \hline 1935 \\ 774 \times \\ 387 \times \times \\ \hline 48375 \end{array}$$

$$\therefore 387 \times 125 = 48375$$

Sum of decimal places in the given numbers = $(2 + 2) = 4$

$$\therefore 3.87 \times 1.25 = 4.8375 \quad [4 \text{ places of decimal}]$$

(vii) First, we will multiply 38 by 6.

$$\begin{array}{r} 38 \\ \times 6 \\ \hline 228 \end{array}$$

$$\therefore 38 \times 6 = 228$$

Sum of decimal places in the given numbers = $(2 + 2) = 4$

$$\therefore 0.06 \times 0.38 = 0.0228 \quad [4 \text{ places of decimal}]$$

(viii) First, we will multiply 623 by 75.

$$\begin{array}{r} 623 \\ \times 75 \\ \hline 3115 \\ 4361 \times \\ \hline 46725 \end{array}$$

$$\therefore 623 \times 75 = 46725$$

Sum of decimal places in the given numbers = $(3 + 2) = 5$

$$\therefore 0.623 \times 0.75 = 0.46725 \quad [5 \text{ places of decimal}]$$

(ix) First, we will multiply 14 by 46.

$$\begin{array}{r}
 14 \\
 \times 46 \\
 \hline
 84 \\
 56 \times \\
 \hline
 644
 \end{array}$$

$$\therefore 14 \times 46 = 644$$

Sum of decimal places in the given numbers = $(3 + 2) = 5$

$$\therefore 0.014 \times 0.46 = 0.00644 \quad [5 \text{ places of decimal}]$$

(x) First, we will multiply 545 by 176.

$$\begin{array}{r}
 545 \\
 \times 176 \\
 \hline
 3270 \\
 3815 \times \\
 545 \times \times \\
 \hline
 95920
 \end{array}$$

$$\therefore 545 \times 176 = 95920$$

Sum of decimal places in the given numbers = $(1 + 2) = 3$

$$\begin{aligned}
 \therefore 54.5 \times 1.76 &= 95.920 \quad [3 \text{ places of decimal}] \\
 &= 95.92
 \end{aligned}$$

(xi) First, we will multiply 45 by 24.

$$\begin{array}{r}
 45 \\
 \times 24 \\
 \hline
 180 \\
 90 \times \\
 \hline
 1080
 \end{array}$$

$$\therefore 45 \times 24 = 1080$$

Sum of decimal places in the given numbers = $(3 + 1) = 4$

$$\begin{aligned}
 \therefore 0.045 \times 2.4 &= 0.1080 \quad [4 \text{ places of decimal}] \\
 &= 0.108
 \end{aligned}$$

***** END *****