

Ch-02
Mathematics, class - VII 'Ex - 2.6'
"Complete solution"

Q.1. Find:

(i) 0.2×6 (ii) 8×4.6 (iii) 2.71×5

(iv) 20.1×4 (v) 0.05×7 .

Sol.

(i) 0.2×6

$$= \frac{2}{10} \times 6 = \frac{12}{10} = \underline{1.2}$$

(ii) 8×4.6

$$= 8 \times \frac{46}{10} = \frac{8 \times 46}{10} = \underline{\frac{368}{10}}$$

$$= 36.8$$

(iii) 2.71×5 = $\frac{271}{100} \times 5 = \frac{271 \times 5}{100}$

$$= \frac{1355}{100} = \underline{13.55}$$

(iv) 20.1×4

$$= \frac{201}{10} \times 4 = \frac{201 \times 4}{10} = \frac{804}{10}$$

$$= \underline{80.4}$$

(v) 0.05×7 = $\frac{5}{100} \times 7 = \frac{35}{100} = \underline{0.35}$

Q.2. Find the area of rectangle whose length is 5.7 cm and width is 3 cm.

Sol. Length of rectangle = 5.7 cm.
Width " " = 3 cm.

$$\begin{aligned}\therefore \text{Area of rectangle} &= \underline{l \times b} \\ &= 5.7 \times 3 \\ &= \frac{57}{10} \times 3 \\ &= \frac{171}{10} = \underline{17.1 \text{ cm}^2}.\end{aligned}$$

Q.3. Find:

- (i) 1.3×10 (ii) 36.8×10 (iii) 36.8×10
(iv) 153.7×10 (v) 0.5×10 (vi) 0.03×1000

Sol. (i) $\underline{1.3 \times 10}$
 $= \frac{13}{10} \times 10 = \underline{13}.$

(ii) $\underline{36.8 \times 10}$
 $= \frac{368}{10} \times 10 = \underline{368}.$

(iii) $\underline{153.7 \times 10}$
 $= \frac{1537}{10} \times 10 = \underline{1537}.$

$$(iv) \quad \underline{0.5 \times 10}$$
$$= \frac{5}{10} \times 10 = \underline{5.}$$

$$(v) \quad \underline{0.03 \times 1000}$$
$$= \frac{3}{100} \times 1000 = \underline{3 \times 10 = 30.}$$

Q.4. Sol.

Distance covered in one litre of petrol = 55.3 Km.

∴ Distance covered in 10 litres of petrol = 55.3 × 10 Km.

$$= \frac{553}{10} \times 10$$
$$= \underline{553 \text{ Km.}}$$

Q.5. Sol.

(i) 2.5 × 0.3 (ii) 0.5 × 0.05

(iii) 101.01 × 0.01 (iv) 100.01 × 1.1

$$(i) \quad \underline{2.5 \times 0.3} = \frac{25}{10} \times \frac{3}{10} = \frac{75}{100} = \underline{0.75}$$

$$(ii) \quad \underline{0.5 \times 0.05} = \frac{5}{10} \times \frac{5}{100} = \frac{25}{1000} = \underline{0.025}$$

$$(iii) \quad \underline{101.01 \times 0.01} = \frac{10101}{100} \times \frac{1}{100} = \frac{10101}{10000} = \underline{1.0101.}$$