

Board – CBSE

Class – 7th

Topic – Fractions and Decimals 2.6

**Q.1** Find:

(i)  $0.2 \times 6$                       (ii)  $8 \times 4.6$                       (iii)  $2.71 \times 5$                       (iv)  $20.1 \times 4$

(v)  $0.05 \times 7$                       (vi)  $211.02 \times 4$                       (vii)  $2 \times 0.86$

**Sol:** (i)  $0.2 \times 6 = 1.2$                       (ii)  $8 \times 4.6 = 36.8$                       (iii)  $2.71 \times 5 = 13.55$   
(iv)  $20.1 \times 4 = 80.4$                       (v)  $0.05 \times 7 = 0.35$                       (vi)  $211.02 \times 4 = 844.08$   
(vii)  $2 \times 0.86 = 1.72$

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

**Sol:** Given: Length of rectangle = 5.7 cm and Breadth of rectangle = 3 cm

Area of rectangle = Length  $\times$  Breadth

$$= 5.7 \times 3 = 17.1 \text{ cm}^2$$

Thus, the area of the rectangle is  $17.1 \text{ cm}^2$ .

**Q.3** Find:

(i)  $1.3 \times 10$                       (ii)  $36.8 \times 10$  (iii)  $153.7 \times 10$                       (iv)  $168.07 \times 10$

(v)  $31.1 \times 100$                       (vi)  $156.1 \times 100$                       (vii)  $3.62 \times 100$                       (viii)  $43.07 \times 100$

(ix)  $0.5 \times 10$                       (x)  $0.08 \times 10$  (xi)  $0.9 \times 100$                       (xii)  $0.03 \times 1000$

**Sol:** We know that when a decimal number is multiplied by 10, 100, 1000, the decimal point in the product is shifted to the right by as many places as there are zeroes.

Therefore, these products can be calculated as

(i)  $1.3 \times 10 = 13$                       (ii)  $36.8 \times 10 = 368$                       (iii)  $153.7 \times 10 = 1537$

(v)  $168.07 \times 10 = 1680.7$                       (vi)  $31.1 \times 100 = 3110$                       (vii)  $156.1 \times 100 = 15610$

(viii)  $3.62 \times 100 = 362$                       (ix)  $43.07 \times 100 = 4307$                       (x)  $0.5 \times 10 = 5$

(xi)  $0.08 \times 10 = 0.8$                       (xii)  $0.9 \times 100 = 90$                       (xiii)  $0.03 \times 1000 = 30$

**Q.4** 4 A two-wheeler covers a distance of 55.3 km in one liter of petrol. How much distance will it cover in 10 liters of petrol?

**Sol:** Distance covered in 1 liter of petrol = 55.3 km

Distance covered in 10 litre of petrol =  $10 \times 55.3 = 553 \text{ km}$

Therefore, it will cover 553 km in 10 liters of petrol.

**Q.5** Find:

(i)  $2.5 \times 0.3$

(ii)  $0.1 \times 51.7$

(iii)  $0.2 \times 316.8$

(iv)  $1.3 \times 3.1$

(v)  $0.5 \times 0.05$

(vi)  $11.2 \times 0.15$

(vii)  $1.07 \times 0.02$

(viii)  $10.05 \times 1.05$

(ix)  $101.01 \times 0.01$

(x)  $100.01 \times 1.1$

**Sol:**

(i)  $2.5 \times 0.3 = 0.75$

(ii)  $0.1 \times 51.7 = 5.17$

(iii)  $0.2 \times 316.8 = 63.36$

(iv)  $1.3 \times 3.1 = 4.03$

(v)  $0.5 \times 0.05 = 0.025$

(vi)  $11.2 \times 0.15 = 1.680$

(vii)  $1.07 \times 0.02 = 0.0214$

(viii)  $10.05 \times 1.05 = 10.5525$

(ix)  $101.01 \times 0.01 = 1.0101$

(x)  $100.01 \times 1.1 = 110.11$