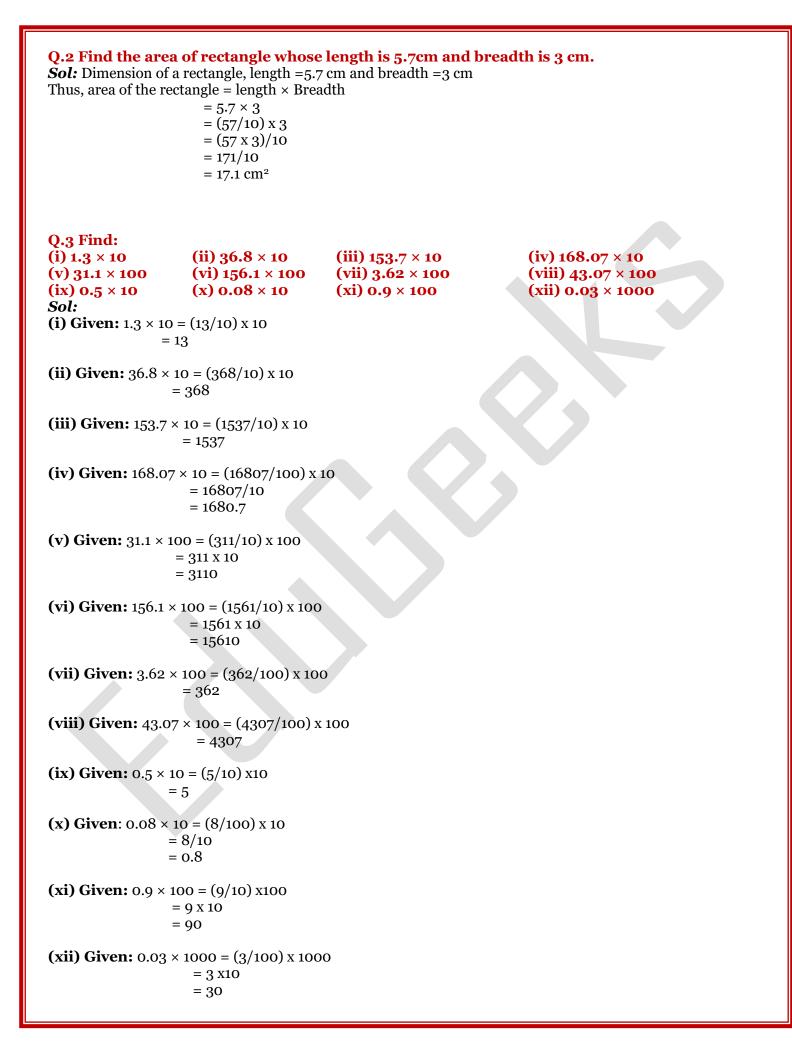
Fractions and Decimals: Exercise 2.6

(iv) 20.1 × 4

Q.1 Find: (i) 0.2 × 6 (ii) 8 × 4.6 (iii) 2.71 × 5 (vi) 211.02 × 4 (v) 0.05 × 7 (vii) 2 × 0.86 Sol: (i) Given: $0.2 \times 6 = (2/10) \times 6$ =(2x6)/10= 12/10Now, we put the decimal before the ones digit. = 1.2 (ii) Given: $8 \times 4.6 = 8 \times (46/10)$ =(8x46)/10= 368/10 Now, we put the decimal before the ones digit. = 36.8 (iii) Given: $2.71 \times 5 = (271/100) \times 5$ =(271x5)/100= 1355/100 Now, we put the decimal before the tens digit. = 13.55 (iv) Given: $20.1 \times 4 = (201/10) \times 4$ $=(201 \times 4)/10$ = 804/10Now, we put the decimal before the ones digit. = 80.4 (v) Given: $0.05 \times 7 = (5/100) \times 7$ =(5x7)/100= 35/100Now, we put the decimal before the tens digit. = 0.35(vi) Given: $211.02 \times 4 = (21102/100) \times 4$ $=(21102 \times 4)/100$ = 84408/100 Now, we put the decimal before the tens digit. = 844.08 (vii) Given: $2 \times 0.86 = 2 \times (86/100)$ =(2x86)/100= 172/100Now, we put the decimal before the tens digit. = 1.72



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

Sol: Given: Distance covered by two-wheeler in 1litre of petrol = 55.3 km So, distance covered in 10litre of petrol will be = (10×55.3)

$$= 10 \text{ x} (553/10)$$

Thus, covered distance by Two-wheeler in 10litre of petrol = 553 km

Q.5 Find: (i) 2.5 × 0.3 (ii) 0.1 × 51.7 (iii) 0.2 × 316.8 (iv) 1.3 × 3.1 (v) 0.5 × 0.05 (vii) 1.07 × 0.02 (viii) 10.05 × 1.05 (vi) 11.2 × 0.15 (ix) 101.01×0.01 (x) 100.01×1.1 Sol: (i) Given: $2.5 \times 0.3 = (25/10) \times (3/10)$ = (25 x3)/(10 x 10)= 75/100Since, here 100 in denominator. So, decimal point is shifted to the left by two places. = 0.75(ii) Given: $0.1 \times 51.7 = (1/10) \times (517/10)$ $= (1 \times 517) / (10 \times 10)$ = 517/100Since, here 100 in denominator. So, decimal point is shifted to the left by two places. = 5.17(iii) Given: $0.2 \times 316.8 = (2/10) \times (3168/10)$ =(2x 3168)/(10 x 10)= 6336/100 Since, here 100 in denominator. So, decimal point is shifted to the left by two places. = 63.36 (iv) Given: $1.3 \times 3.1 = (13/10) \times (31/10)$ =(13x31)/(10x10)= 403/100Since, here 100 in denominator. So, decimal point is shifted to the left by two places. = 4.03(v) Given: $0.5 \times 0.05 = (5/10) \times (5/100)$ =(5x5)/1000= 25/1000Since, here 1000 in denominator. So, decimal point is shifted to the left by three places. = 0.025(vi) Given: $11.2 \times 0.15 = (112/10) \times (15/100)$ =(112x15)/(10x100)= 1680/1000Since, here 1000 in denominator. So, decimal point is shifted to the left by three places. = 1.680(vii) Given: $1.07 \times 0.02 = (107/100) \times (2/100)$ =(107x2)/(100x100)= 214/10000Since, here 10000 in denominator. So, decimal point is shifted to the left by four places. = 0.0214

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(viii) Given: 10.05 \times 1.05 = (1005/100) \times (105/100)

= (1005 \times 105)/(100 \times 100)

= (105525/10000)

Since, here 10000 in denominator. So, decimal point is shifted to the left by four places.

= 10.5525

(ix) Given: 101.01 \times 0.01 = (10101/100) \times (1/100)

= (10101 \times 1)/(100 \times 100)

= 10101/10000

Since, here 10000 in denominator. So, decimal point is shifted to the left by four places.

= 1.0101

(x) Given: 100.01 \times 1.1 = (10001/100) \times (11/10)

= (10001 \times 11)/(100 \times 10)

= (110011)/(100 \times 10)

= (110011)/(1000)

Since, here 1000 in denominator. So, decimal point is shifted to the left by three places.

= 110.011
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