Exercise 2.7

Question 1:

Find:

(i) $0.4 \div 2$ (ii) $0.35 \div 5$ (iii) $2.48 \div 4$

(iv) $65.4 \div 6$ (v) $651.2 \div 4$ (v) $14.49 \div 7$

(vii) $3.96 \div 4$ (viii) $0.80 \div 5$

Answer 1:

(i) $0.4 \div 2 = \frac{4}{10} \times \frac{1}{2} = \frac{2}{10} = 0.2$

(ii) $0.35 \div 5 = \frac{35}{100} \times \frac{1}{5} = \frac{7}{100} = 0.07$

(iii) $2.48 \div 4 = \frac{248}{100} \times \frac{1}{4} = \frac{62}{100} = 0.62$

(iv) $65.4 \div 6 = \frac{654}{10} \times \frac{1}{6} = \frac{109}{10} = 10.9$

(v) $651.2 \div 4 = \frac{6512}{10} \times \frac{1}{4} = \frac{1628}{10} = 162.8$

(vi) $14.49 \div 7 = \frac{1449}{100} \times \frac{1}{7} = \frac{207}{100} = 2.07$

(vii) $3.96 \div 4 = \frac{396}{100} \times \frac{1}{4} = \frac{99}{100} = 0.99$

(viii) $0.80 \div 5 = \frac{80}{100} \times \frac{1}{5} = \frac{16}{100} = 0.16$

Question 2:

Find:

(i) $4.8 \div 10$ (ii) $52.5 \div 10$ (iii) $0.7 \div 10$

(iv) $33.1 \div 10$ (v) $272.23 \div 10$ (vi) $0.56 \div 10$

(vii) $3.97 \div 10$

Answer 2:

(i) $4.8 \div 10 = \frac{4.8}{10} = 0.48$ (ii) $52.5 \div 10 = \frac{52.5}{10} = 5.25$

(iii) $0.7 \div 10 = \frac{0.7}{10} = 0.07$ (iv) $33.1 \div 10 = \frac{33.1}{10} = 3.31$

(v) $272.23 \div 10 = \frac{272.23}{10} = 27.223$ (vi) $0.56 \div 10 = \frac{0.56}{10} = 0.056$

(vii) $3.97 \div 10 = \frac{3.97}{10} = 0.397$

Question 3:

Find:

(i) $2.7 \div 100$ (ii) $0.3 \div 100$ (iii) $0.78 \div 100$

(iv) $432.6 \div 100$ (v) $23.6 \div 100$ (vi) $98.53 \div 100$

Answer 3:

(i) $2.7 \div 100 = \frac{27}{10} \times \frac{1}{100} = \frac{27}{1000} = 0.027$

(ii) $0.3 \div 100 = \frac{3}{10} \times \frac{1}{100} = \frac{3}{1000} = 0.003$

(iii) $0.78 \div 100 = \frac{78}{100} \times \frac{1}{100} = \frac{78}{10000} = 0.0078$

(iv) $432.6 \div 100 = \frac{4326}{10} \times \frac{1}{100} = \frac{4326}{1000} = 4.326$

(v) $23.6 \div 100 = \frac{236}{10} \times \frac{1}{100} = \frac{236}{1000} = 0.236$

(vi) $98.53 \div 100 = \frac{9853}{100} \times \frac{1}{100} = \frac{9853}{10000}$ 0.9853

Question 4:

Find:

(i) $7.9 \div 1000$ (ii) $26.3 \div 1000$ (iii) $38.53 \div 1000$

(iv) $128.9 \div 1000$ (v) $0.5 \div 1000$

Answer 4:

(i) $7.9 \div 1000 = \frac{79}{10} \times \frac{1}{1000} = \frac{79}{10000} = 0.0079$

(ii) $26.3 \div 1000 = \frac{263}{10} \times \frac{1}{1000} = \frac{263}{10000} = 0.0263$

(iii) $38.53 \div 1000 = \frac{3853}{100} \times \frac{1}{1000} = \frac{3853}{100000} = 0.03853$

(iv) $128.9 \div 1000 = \frac{1289}{10} \times \frac{1}{1000} = \frac{1289}{10000} = 0.1289$

(v) $0.5 \div 1000 = \frac{5}{10} \times \frac{1}{1000} = \frac{5}{10000} = 0.0005$

Question 5:

Find:

(i) $7 \div 3.5$ (ii) $36 \div 0.2$ (iii) $3.25 \div 0.5$

(iv) $30.94 \div 0.7$ (v) $0.5 \div 0.25$ (vi) $7.75 \div 0.25$

(vii) $76.5 \div 0.15$ (viii) $37.8 \div 1.4$ (ix) $2.73 \div 1.3$

Answer 5:

(i) $7 \div 3.5 = 7 \div \frac{35}{10} = 7 \times \frac{10}{35} = \frac{10}{5} = 2$

(ii) $36 \div 0.2 = 36 \div \frac{2}{10} = 36 \times \frac{10}{2} = 18 \text{ x } 10 = 180$

(iii) $3.25 \div 0.5 = \frac{325}{100} \div \frac{5}{10} = \frac{325}{100} \times \frac{10}{5} = \frac{65}{10} = 6.5$

(iv) $30.94 \div 0.7 = \frac{3094}{100} \div \frac{7}{10} = \frac{3094}{100} \times \frac{10}{7} = \frac{442}{10} = 44.2$

(v) $0.5 \div 0.25 = \frac{5}{10} \div \frac{25}{100} = \frac{5}{10} \times \frac{100}{25} = \frac{10}{5} = 2$

(vi) $7.75 \div 0.25 = \frac{775}{100} \div \frac{25}{100} = \frac{775}{100} \times \frac{100}{25} = 31$

(vii) $76.5 \div 0.15 = \frac{765}{10} \div \frac{15}{100} = \frac{765}{10} \times \frac{100}{15} = 51 \text{ x } 10 = 510$

(viii) $37.8 \div 1.4 = \frac{378}{10} \div \frac{14}{10} = \frac{378}{10} \times \frac{10}{14} = 27$

(ix) $2.73 \div 1.3 = \frac{273}{100} \div \frac{13}{10} = \frac{273}{100} \times \frac{10}{13} = \frac{21}{10} = 2.1$

Question 6:

A vehicle covers a distance of 43.2 km in 2.4 litres of petrol. How much distance will it cover in one litre petrol?

Answer 6:

$\because$ In 2.4 litres of petrol, distance covered by the vehicle = 43.2 km

$\therefore$ In 1 litre of petrol, distance covered by the vehicle = $43.2 \div 2.4$

$$= \frac{432}{10} \div \frac{24}{10} = \frac{432}{10} \times \frac{24}{10}$$

$$= 18 \text{ km}$$

Thus, it covered 18 km distance in one litre of petrol.