

Ex. 2.7

Q1 find

Sol.

(i) $0.4 \div 2$

$$\frac{4}{10} \div 2 = \frac{4}{10} \times \frac{1}{2} = 0.2$$

(ii) $0.35 \div 5$

$$\frac{35}{100} \div 5 = \frac{35}{100} \times \frac{1}{5} = 0.07$$

(iii) $2.48 \div 4$

$$\frac{248}{100} \div 4 = \frac{248}{100} \times \frac{1}{4} = 0.62$$

(iv) $65.4 \div 6$

$$\frac{654}{100} \div 6 = \frac{654}{100} \times \frac{1}{6} = 1.09$$

(v) $651.4 \div 4$

$$\frac{6514}{10} \div 4 = \frac{6514}{10} \times \frac{1}{4} = 162.8$$

(vi) $14.49 \div 7$

$$\frac{1449}{100} \div 7 = \frac{1449}{100} \times \frac{1}{7} = 2.07$$

(vii) $3.96 \div 4$

$$\frac{396}{100} \div 4 = \frac{396}{100} \times \frac{1}{4} = 0.99$$

(viii) $0.80 \div 5$

$$\frac{80}{100} \div 5 = \frac{80}{100} \times \frac{1}{5} = 0.16$$

Sol.

Q find (i) $4.8 \div 10 = 0.48$

(ii) $52.5 \div 10 = 5.25$

(iii) $0.7 \div 10 = 0.07$

(iv) $33.1 \div 10 = 3.31$

(v) $272.23 \div 10 = 27.223$

(vi) $0.56 \div 10 = 0.056$

(vii) $3.97 \div 10 = 0.397$

Q3. find

(i) $2.7 \div 100 = 0.027$

(ii) $0.3 \div 100 = 0.003$

(iii) $0.78 \div 100 = 0.0078$

(iv) $432.6 \div 100 = 4.326$

(v) $23.6 \div 100 = 0.236$

(vi) $98.53 \div 100 = 0.9853$

84. find

$$(i) 7.9 \div 1000 = 0.0079$$

$$(ii) 26.3 \div 1000 = 0.0263$$

$$(iii) 38.53 \div 1000 = 0.03853$$

$$(iv) 128.9 \div 1000 = 0.1289$$

$$(v) 0.5 \div 1000 = 0.0005$$

85. find

$$(i) 7 \div 35 \rightarrow \frac{7 \div 35}{10} = \frac{7 \times 10^2}{35 \cancel{10}} = 2 \text{ Ans}$$

$$(ii) 36 \div 0.2 \rightarrow \frac{36 \div 2}{10} = \frac{36 \times 10}{2 \cancel{10}} = 180$$

$$(iii) 3.25 \div 0.5 = \frac{325 \div 5}{100} = \frac{65}{100} \times \frac{10}{8} = 6.5$$

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

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

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

$$= \frac{775}{100} \times \frac{100}{25} = 31$$

$$(vii) \quad 76.5 \div 0.15 = \frac{765}{10} \div \frac{15}{100}$$

$$= \frac{765}{10} \times \frac{100}{15} = 510$$

$$(viii) \quad 37.8 \div 14 = \frac{378}{10} \div \frac{14}{10}$$

$$= \frac{378}{10} \times \frac{10}{14} = 27$$

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

⑥ A vehicle covers a distance of 4 km in 2.4 litres of petrol. How much distance will it cover in one litre of petrol?

Sol. Distance covered in one litre of petrol

= $\frac{\text{Total distance covered}}{\text{Total quantity of petrol}}$

$$= \frac{43.2}{2.4} = 43.2 \div 2.4 \left(\frac{432}{10} \div \frac{24}{10} \right)$$

$$= \frac{432}{10} \times \frac{10}{24} = 18 \text{ km Avg.}$$