

Mathematics

Class - VII, Ch-02, Exc-2.7

Complete Solution.

Q.1. Find:

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

(iv) $65.4 \div 6$ (v) $651.2 \div 4$ (vi) $0.80 \div 5$

Sol. (i) $0.2 \div 2$

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

$$= \underline{0.1}$$

(ii) $0.35 \div 5$

$$= 0.35 \times \frac{1}{5} = \frac{35}{100} \times \frac{1}{5} = \frac{7}{100}$$

$$= \underline{0.07}$$

(iii) $2.48 \div 4$

$$= 2.48 \times \frac{1}{4} = \frac{248}{100} \times \frac{1}{4} = \frac{62}{100}$$

$$= \underline{0.62}$$

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

$$= \underline{10.9}$$

$$(v) \underline{651.2 \div 4}$$

$$= 651.2 \times \frac{1}{4} = \frac{6512}{10} \times \frac{1}{4} = \frac{1628}{10}$$

$$= \underline{162.8}$$

$$(vi) \underline{0.80 \div 5}$$

$$= 0.80 \times \frac{1}{5} = \frac{80}{100} \times \frac{1}{5} = \frac{16}{100}$$

$$= \underline{0.16}$$

Q.2 Find:

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

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

Sol.

$$(i) \underline{4.8 \div 10} = 4.8 \times \frac{1}{10}$$

$$= \frac{48}{10} \times \frac{1}{10} = \frac{48}{100} = \underline{0.48}$$

$$(ii) \underline{52.5 \div 10} = 52.5 \times \frac{1}{10}$$

$$= \frac{525}{10} \times \frac{1}{10} = \frac{525}{100} = \underline{5.25}$$

$$(iii) \underline{0.7 \div 10} = 0.7 \times \frac{1}{10}$$

$$= \frac{7}{10} \times \frac{1}{10} = \frac{7}{100} = \underline{0.07}$$

$$(v) \underline{272.23 \div 10}$$

$$= 272.23 \times \frac{1}{10} = \frac{27223}{100} \times \frac{1}{10}$$

$$= \frac{27223}{1000} = \underline{27.223}$$

$$(vi) \underline{0.56 \div 10}$$

$$= 0.56 \times \frac{1}{10} = \frac{56}{100} \times \frac{1}{10}$$

$$= \frac{56}{1000} = \underline{0.056}$$

Q.3. Find

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

$$(iv) 432.6 \div 100 \quad (v) 23.6 \div 100$$

Sol. (i) $\underline{2.7 \div 100} = 2.7 \times \frac{1}{100}$

$$= \frac{27}{10} \times \frac{1}{100} = \frac{27}{1000} = \underline{0.027}$$

$$(ii) \underline{0.3 \div 100} = 0.3 \times \frac{1}{100}$$

$$= \frac{3}{10} \times \frac{1}{100} = \frac{3}{1000} = \underline{0.003} \rightarrow$$

$$(iii) \underline{0.78 \div 100}$$

$$= 0.78 \times \frac{1}{100} = \frac{78}{100} \times \frac{1}{100}$$

$$= \frac{78}{10000} = \underline{0.0078}$$

$$(iv) \underline{432.6 \div 100}$$

$$= 432.6 \times \frac{1}{100} = \frac{4326}{10} \times \frac{1}{100}$$

$$= \frac{4326}{1000} = \underline{4.326}$$

$$(v) \underline{23.6 \div 100}$$

$$= 23.6 \times \frac{1}{100} = \frac{236}{10} \times \frac{1}{100}$$

$$= \frac{236}{1000} = \underline{0.236}$$

Q.4. Find

$$(i) 7.9 \div 1000$$

$$(ii) 26.3 \div 1000$$

$$(iii) 38.53 \div 1000$$

$$(iv) 128.9 \div 1000$$

Sol. (i) $\underline{7.9 \div 1000} = 7.9 \times \frac{1}{1000}$

$$= \frac{79}{10} \times \frac{1}{1000} = \frac{79}{10000} = \underline{0.0079}$$

$$(ii) \quad \underline{26.3 \div 1000} = 26.3 \times \frac{1}{1000}$$

$$= \frac{263}{10} \times \frac{1}{1000} = \frac{263}{10000} = \underline{0.0263}$$

$$(iii) \quad \underline{38.53 \div 1000} = 38.53 \times \frac{1}{1000}$$

$$= \frac{3853}{100} \times \frac{1}{1000} = \frac{3853}{100000}$$

$$= \underline{0.03853}$$

$$(iv) \quad \underline{128.9 \div 1000} = 128.9 \times \frac{1}{1000}$$

$$= \frac{1289}{10} \times \frac{1}{1000} = \frac{1289}{10000}$$

$$= \underline{0.1289}$$

Q.5. Find

(i) $7 \div 3.5$ (ii) $3.25 \div 0.5$

(iii) $0.5 \div 0.25$ (iv) $76.5 \div 0.15$

Sol. (i) $7 \div 3.5 = 7 \times \frac{1}{\left(\frac{35}{10}\right)} = 7 \times \frac{10}{35}$

$$= 7 \cancel{0} \div 35 = \frac{70}{35} = \underline{2}$$

$$= 70 \div 35 = \underline{2 \text{ Ans}}$$

OR

(ii) $3.25 \div 0.5 = 3.25 \times \frac{1}{\left(\frac{5}{10}\right)}$

$$= \frac{325}{100} \times \frac{10}{5} = \frac{65}{10} = \underline{6.5} \rightarrow$$

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

$$(iii) \quad \underline{0.5 \div 0.25}$$

$$= 0.5 \times \frac{1}{0.25} = \frac{5}{10} \times \frac{100}{25}$$

$$= \frac{20}{10} = \underline{2}$$

$$(iv) \quad \underline{76.5 \div 0.15} = 76.5 \times \frac{1}{0.15}$$

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

Q.6

Sol.

Distance covered in 2.4 litre of petrol = 43.2 Km

\therefore Distance covered in 1 litre of petrol =

$$\frac{43.2}{2.4} \text{ Km}$$

$$= \frac{432}{24} = \frac{24 \times 18}{24} = \underline{18}$$

Hence, Distance covered in 1 litre of petrol is 18 Km.