

**CLASS NOTES-ANSWERS****EXERCISE 2.7**

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) $14.49 \div 7$

(vii) $3.96 \div 4$

(viii) $0.80 \div 5$

Answer:

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

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

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

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

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

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

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

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

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:

(i) $4.8 \div 10 = 0.48$

(ii) $52.5 \div 10 = 5.25$



$$(iii) 0.7 \div 10 = 0.07$$

$$(iv) 33.1 \div 10 = 3.31$$

$$(v) 272.23 \div 10 = 27.223$$

$$(vi) 0.56 \div 10 = 0.056$$

$$(vii) 3.97 \div 10 = 0.397$$

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:

$$(i) 2.7 \div 100 = 0.027$$

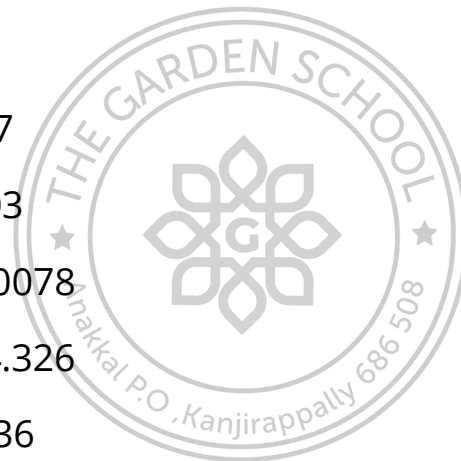
$$(ii) 0.3 \div 100 = 0.003$$

$$(iii) 0.78 \div 100 = 0.0078$$

$$(iv) 432.6 \div 100 = 4.326$$

$$(v) 23.6 \div 100 = 0.236$$

$$(vi) 98.53 \div 100 = 0.9853$$



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:

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

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

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



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

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

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:

$$(i) 7 \div 3.5 = 7 \div \frac{35}{10} = 7 \times \frac{10}{35} = \frac{70}{35} = 2$$

$$\text{Or } 7 \div 3.5 = \frac{7}{3.5} = \frac{7 \times 10}{3.5 \times 10} = \frac{70}{35} = 2$$

$$(ii) 36 \div 0.2 = 36 \div \frac{2}{10} = 36 \times \frac{10}{2} = \frac{360}{2} = 180$$

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

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

$$(v) 0.5 \div 0.25 = \frac{5}{10} \div \frac{25}{100} = \frac{5}{10} \times \frac{100}{25} = \frac{50}{25} = 2$$

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

$$(vii) 76.5 \div 0.15 = \frac{765}{10} \div \frac{15}{100} = \frac{765}{10} \times \frac{100}{15} = \frac{7650}{15} = 510$$

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

$$(ix) 2.73 \div 1.3 = \frac{273}{100} \div \frac{13}{10} = \frac{273}{100} \times \frac{10}{13} = \frac{273}{130} = \frac{21}{10} = 2.1$$

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 of petrol?

Answer: Distance covered in 2.4 liters of petrol = 43.2 km

$$\therefore \text{Distance covered in 1 liter of petrol} = 43.2 \div 2.4$$



$$\begin{aligned} &= \frac{432}{10} \div \frac{24}{10} \\ &= \frac{432}{10} \times \frac{10}{24} \\ &= \frac{432}{24} \\ &= 18 \text{ km} \end{aligned}$$

Thus, it covers a distance of 18 km in 1 liter of petrol.

