

RD Sharma
Solutions

Class 7

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Exercise 3.3

Q.1 Divide

- (i) 142.45 by 10 (ii) 54.25 by 10 (iii) 3.45 by 10
 (iv) 0.57 by 10 (v) 0.043 by 10 (vi) 0.004 by 10

Solution: (i) $142.45 \text{ by } 10 = \frac{142.45}{10} = 14.245$

(ii) $\frac{54.25}{10} = 5.425$

(iii) $\frac{3.45}{10} = 0.345$

(iv) $\frac{0.57}{10} = 0.057$

(v) $\frac{0.043}{10} = 0.0043$

(vi) $\frac{0.004}{10} = 0.0004$

Q.2 Divide: (i) 459.5 by 100 (ii) 74.3 by 100

(iii) 5.8 by 100 (iv) 0.7 by 100 (v) 0.48 by 100

(vi) 0.003 by 100

Solution: (i) $\frac{459.5}{100} = 4.595$

(ii) $\frac{74.3}{100} = 0.743$

(iii) $\frac{5.8}{100} = 0.058$

$$(iv) \frac{0.7}{100} = 0.007$$

$$(v) \frac{0.48}{100} = 0.0048$$

$$(vi) \frac{0.03}{100} = \dots = 0.0003$$

Q3 Divide:

$$(i) 235.41 \text{ by } 1000$$

$$(ii) 29.5 \text{ by } 1000$$

$$(iii) 3.8 \text{ by } 1000$$

$$(iv) 0.7 \text{ by } 1000$$

Solution (i) $\frac{235.41}{1000} = 0.23541$

$$(ii) \frac{29.5}{1000} = 0.0295$$

$$(iii) \frac{3.8}{1000} = 0.0038$$

$$(iv) \frac{0.7}{1000} = 0.0007$$

Q4 Divide:

$$(i) 0.45 \text{ by } 9$$

$$(ii) 217.44 \text{ by } 18$$

$$(iii) 319.2 \text{ by } 2.2$$

$$(iv) 40.32 \text{ by } 9.6$$

$$(v) 0.765 \text{ by } 0.9$$

$$(vi) 0.768 \text{ by } 1.6$$

Solution (i) $\frac{0.45}{9} = 0.5$

$$\begin{array}{r} 0.5 \\ 9 \overline{) 0.45} \\ \underline{45} \\ 0 \end{array}$$

$$(ii) \frac{217.44}{18} = 12.08$$

$$\begin{array}{r} 12.08 \\ 18 \overline{) 217.44} \\ \underline{-18} \\ 37 \\ \underline{36} \\ 144 \\ \underline{144} \\ 0 \end{array}$$

$$(iii) \frac{319.2}{2.28} = \frac{319.20}{2.28} \quad (\text{By converting into like decimals})$$

$$= \frac{31920}{228} = 140$$

$$(iv) \frac{40.32}{9.6} = \frac{40.32}{9.60} \quad (\text{By converting into like decimals})$$

$$= \frac{4032}{960} = 4.2$$

$$\begin{array}{r} 4.2 \\ 960 \overline{) 4032} \\ \underline{-3840} \\ 1920 \\ \underline{1920} \\ 0 \end{array}$$

$$(v) \frac{0.765}{0.9} \quad (\text{By converting into like decimals})$$

$$= \frac{0.765}{0.900} = \frac{765}{900} = 0.85$$

$$\begin{array}{r} 0.85 \\ 900 \overline{) 7650} \\ \underline{7200} \\ 4500 \\ \underline{-4500} \\ 0 \end{array}$$

$$(vi) \frac{0.768}{1.6} = \frac{0.768}{1.600} \quad (\text{By converting into like decimals})$$

$$= \frac{768}{1600} = 0.48$$

$$\begin{array}{r} 0.48 \\ 1600 \overline{) 7680} \\ \underline{6400} \\ 12800 \\ \underline{-12800} \\ 0 \end{array}$$

Q.5 Divide

(i) 16.64 by 20

(ii) 0.192 by 12

(iii) 163.44 by 24

(iv) 403.2 by 96

(v) 16.344 by 12

(vi) 31.92 by 228

Solution: (i) $\frac{16.64}{20} = \frac{16.64}{2 \times 10} = \frac{16.64}{2} \times \frac{1}{10} = \frac{8.32}{10} = 0.832$

(ii) $\frac{0.192}{12}$, we have $12 \overline{) 0.192}$

$$\begin{array}{r} 0.16 \\ 12 \overline{) 0.192} \\ \underline{-12} \\ 72 \\ \underline{-72} \\ 0 \end{array}$$

$= 0.16$

(iii) $\frac{163.44}{24}$

$$\begin{array}{r} 6.81 \\ 24 \overline{) 163.44} \\ \underline{-144} \\ 194 \\ \underline{-192} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

$= 6.81$

(vi) 31.92 by 228

$= \frac{31.92}{228} = 0.14$

$$\begin{array}{r} 0.14 \\ 228 \overline{) 31.92} \\ \underline{228} \\ 912 \\ \underline{-912} \\ 0 \end{array}$$