

RD Sharma
Solutions

Class 7

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Exercise 3-1

Q.1 Write each of the following as decimals:

(i) $\frac{8}{100}$

(ii) $20 + \frac{9}{10} + \frac{4}{100}$

(iii) $23 + \frac{2}{10} + \frac{6}{1000}$

Solution : (i) $\frac{8}{100} = 0.08$

(ii) $20 + \frac{9}{10} + \frac{4}{100} = 20 + 0.9 + 0.04 = 20.94$

(iii) $23 + \frac{2}{10} + \frac{6}{1000} = 23 + 0.2 + 0.006 = 23.206$

Q.2 Convert each of the following into fractions in the lowest form:

(i) 0.04

(ii) 2.34

(iii) 0.342

(iv) 17.38

Solution (i) $0.04 = \frac{4}{100} = \frac{1}{25}$

(ii) $2.34 = \frac{234}{100} = \frac{117}{50}$

(iii) $0.342 = \frac{342}{1000} = \frac{171}{500}$

(iv) $17.38 = \frac{1738}{100} = \frac{869}{50}$

Q.3 Express the following fractions as decimals.

(i) $\frac{23}{10}$

(ii) $25\frac{1}{8}$

(iii) $39\frac{7}{35}$

(iv) $15\frac{1}{25}$

Solution: (i) $\frac{23}{10} = 2.3$

(ii) $25\frac{1}{8} = 25 + \frac{1 \times 125}{8 \times 125} = 25 + \frac{125}{1000} = 25 + 0.125 = 25.125$

(iii) $39\frac{7}{35} = 39 + \frac{7}{35} = 39 + \frac{1 \times 20}{5 \times 20} = 39 + \frac{20}{100} = 39.20$

(iv) $15\frac{1}{25} = 15 + \frac{1 \times 4}{25 \times 4} = 15 + \frac{4}{100} = 15 + 0.04 = 15.04$

Q.4 Add the following.

(i) 41.8, 39.24, 5.01, 62.6 (ii) 18.03, 146.3, 0.829, 5.32

Solution: (i) Converting the given decimals to like decimals, we have 41.80, 39.24, 5.01, 62.60

$$\begin{array}{r}
 \text{Now} \quad 41.80 \\
 + 39.24 \\
 + 5.01 \\
 + 62.60 \\
 \hline
 148.65
 \end{array}$$

(11) Converting them in like decimals, we have (3)

$$18.030, 146.300, 0.829, 5.324$$

Now

$$\begin{array}{r} 18.030 \\ 146.300 \\ 0.829 \\ 5.324 \\ \hline 170.483 \end{array}$$

Q.5 Find the value of :

(i) $9.756 - 6.28$

(ii) $48.1 - 0.37$

(iii) $108.032 - 86.8$

(iv) $100 - 26.32$

Solution (i) $9.756 - 6.280$ (By converting them into like decimals)

$$\begin{array}{r} 9.756 \\ - 6.280 \\ \hline 3.476 \end{array}$$

• (ii) $48.1 - 0.37$ (By converting into like decimals)

$$\begin{array}{r} 48.10 \\ - 0.37 \\ \hline 47.73 \end{array}$$

(iii) $108.032 - 86.8$ (By converting into like decimals)

$$\begin{array}{r} = 108.032 \\ - 86.800 \\ \hline 21.232 \end{array}$$

(iv) $100 - 26.32$

Now

$$\begin{array}{r} 100.00 \\ - 26.32 \\ \hline 73.68 \end{array}$$

Q.6 Take out 3.547 from 7.2

Solution:

$$\begin{array}{r} 7.200 \\ - 3.547 \\ \hline 3.653 \end{array}$$

Q.7 What is to be added to 36.85 to get 59.41.

Solution: Required number = $59.41 - 36.85$

Now

$$\begin{array}{r} 59.41 \\ - 36.85 \\ \hline 22.56 \end{array}$$

hence 22.56 should be added.

Q.8 What is to be subtracted from 17.1 to get 2.051?

Solution: Required number = $17.1 - 2.051$

Now,

$$\begin{array}{r} 17.100 \\ - 2.051 \\ \hline 15.049 \end{array}$$

Q.9 By how much should 34.79 be increased to get 70.15?

Solution: required number = $70.15 - 34.79$

$$\begin{array}{r} \text{Now } 70.15 \\ - 34.79 \\ \hline 35.36 \end{array}$$

Q.10 By how much should 59.71 be decreased to get 34.58?

Solution: required number = $59.71 - 34.58$

$$= 25.13$$

$$\begin{array}{r} 59.71 \\ - 34.58 \\ \hline 25.13 \end{array}$$

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