RD SHARMA
Solutions
Class 7 Maths
Chapter 3
Ex 3.1

Q1. Write each of the following as decimals:

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

Mark the decimal point two places from right to left

$$=\frac{8}{100}=0.08$$

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

Convert $\frac{9}{10}$ and $\frac{4}{100}$ into decimals

 $\frac{9}{10}$ Mark the decimal point one place from right to left

$$\frac{9}{10} = 0.9$$

 $\frac{4}{100}$ Mark the decimal point two places from right to left

$$\frac{4}{100}$$
=0.04

$$=20+\frac{9}{10}+\frac{4}{100}$$

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

Convert $\frac{2}{10}$ and $\frac{6}{1000}$ into decimals

 $\frac{2}{10}$ Mark the decimal point one place from right to left

$$\frac{2}{10}$$
 =0.2

Mark the decimal point three places from right to left

=0.006

23, 0.2, 0.006 are unlike decimals. So we convert them into like decimals.

$$=23+\frac{2}{10}+\frac{6}{1000}$$

Q2. Convert each of the following into fractions in the lowest form:

(i) 0.04

$$= \frac{0.04}{1}$$

$$= \frac{0.04 \times 100}{1 \times 100}$$

$$= \frac{4}{100}$$

$$= \frac{1}{25}$$

(ii) 2.34

$$= \frac{2.34}{1}$$

$$= \frac{2.34 \times 100}{1 \times 100}$$

$$= \frac{234}{100}$$

$$= \frac{117}{50}$$

(iii) 0.342

$$= \frac{0.342}{1}$$

$$= \frac{0.342 \times 1000}{1 \times 1000}$$

$$= \frac{342}{1000}$$

$$= \frac{171}{500}$$

(iv) 17.38

$$= \frac{17.38}{1}$$

$$= \frac{17.38 \times 100}{1 \times 100}$$

$$= \frac{1738}{100}$$

$$= \frac{869}{50}$$

 ${\it Q3. Express the following fractions as decimals:}$

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

$$= \frac{23}{10}$$

$$= 2.3$$

$$= 25 + \frac{1}{8}$$

$$= 25 + \frac{1 \times 125}{8 \times 125}$$

$$= 25 + \frac{125}{1000}$$

$$= 25 + 0.125$$

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

$$= \frac{1372}{35}$$

$$= 39.2$$

= 25.125

(iv) 15tfrac125

$$= 15 + \frac{1}{25}$$

$$= 15 + \frac{1 \times 4}{25 \times 4}$$

$$= 15 + \frac{4}{100}$$

$$= 15 + 0.04$$

$$= 15.04$$

Q4. Add the following:

- (i) 41.8, 39.24, 5.01 and 62.6
- (ii) 18.03, 146.3, 0.829 and 5.324

Q5. Find the value of:

- (i) 9.756-6.28
- (ii) 48.1-0.37
- (iii) 108.032-86.8
- (iv) 100 -26.32

Q7. What is to be added to 36.85 to get 59.41?

x+36.85=59.41

x=59.41-36.85

x=22.56

Therefore 22.56 is added to 36.85 to get 59.41

Q8. What is to be subtracted from 17.1 to get 2.051?

17.1-x=2.051

17.1=x+2.051

x=17.1-2.051

x=15.049

Therefore 15.049 is subtracted from 17.1 to get 15.049

Q9. By how much should 34.79 be increased to get 70.15?

34.79+x=70.15

x=70.15-34.79

x=35.36

Therefore 35.36 is increased to 70.15

Q10. By how much should 59.71 be decreased to get 34.58?

59.71-x=34.58

59.71**-**34.58=x

x=25.13

Therefore 25.13 is decreased to get 34.58