Exercise 7.8

Q.1 Find the sum in each of the following.

(i)
$$\begin{array}{r} 102.36 \\ +\ 7.054 \\ +\ 0.8 \\ \hline \\ \hline \end{array}$$

(ii)
$$\begin{array}{r} 0.06 \\ +\ 4.108 \\ \hline \\ \hline \end{array}$$

(iii)
$$\begin{array}{r} 312.8 \\ +\ 290.02 \\ +\ 128.457 \\ \hline \\ \hline \end{array}$$

(iv)
$$\begin{array}{r} 113.285 \\ +\ 6.7 \\ +\ 9.34 \\ +\ 30.08 \\ \hline \\ \hline \end{array}$$

(v)
$$\begin{array}{r} 3.42 \\ +\ 264.08 \\ +\ 7.6 \\ +\ 95.321 \\ \hline \\ \hline \end{array}$$

(vi)
$$\begin{array}{r} 18.003 \\ +\ 41.7 \\ +\ 10.95 \\ +\ 5.057 \\ \hline \\ \hline \end{array}$$

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Solution: (i) 102.36
+ 7.054
+ 0.8

By converting given decimals into like decimal we have

102.360
7.054
0.800
110.214

(ii) 0.06
+ 4.108
+ 91.5

By converting given decimals into like decimals, we have.

0.060
+ 4.108
+ 91.500
95.668

(iii) 312.8
290.02
128.457

By converting given decimals into like decimals, we have

312.800
290.020
128.457
731.277

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(iv) 113.285
+ 6.7
+ 9.34
+ 30.08

By converting given decimals in to like decimals, we have.

113.285
+ 6.700
+ 9.340
+ 30.080
159.405

(v) 3.42
+ 264.08
+ 7.6
+ 95.321

By converting given decimals in to like decimals, we have.

3.420
+ 264.080
+ 7.600
+ 95.321
370.421

(vi) 18.003
41.7
10.95
5.057

By Converting given decimals into like decimals we have.

18.003
41.700
10.950
5.057
75.710

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Q.2 Add the following:

(i) 41.8, 39.24, 5.01, and 62.6

(ii) 4.702, 4.2, 6.02, 1.27

(iii) 18.03, 146.3, 0.829, 5.324

Solution (i) By converting given decimals into like decimals, we get, 41.80, 39.24, 5.01, 62.60

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

(ii) By converting given decimals into like decimals we have

4.702, 4.200, 6.020, 1.270

$$\begin{array}{r} 4.702 \\ +\ 4.200 \\ +\ 6.020 \\ +\ 1.270 \\ \hline 16.192 \end{array}$$

(iii) By converting given decimals into like decimals, we have 18.030, 146.300, 0.829, 5.324

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

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Q3 Find the sum in each of the following

(i) $0.007 + 8.5 + 30.08$ (ii) $280.69 + 25.2 + 38$

(iii) $25.65 + 9.005 + 3.7$ (iv) $27.076 + 0.55 + 0.004$

Solution: (i) $0.007 + 8.5 + 30.08$

By Converting given decimals in like decimals we get

$= 0.007 + 8.500 + 30.080$

$$\begin{array}{r} 0.007 \\ + \quad 8.500 \\ + \ 30.080 \\ \hline 38.587 \end{array}$$

(ii) $280.69 + 25.2 + 38$

By Converting given decimals to like decimals,

$$\begin{array}{r} 280.69 \\ + \quad 25.20 \\ + \quad 38.00 \\ \hline 343.89 \end{array}$$

(iii) $25.65 + 9.005 + 3.7$

By Converting given decimals to like decimals, we get

$$\begin{array}{r} 25.650 \\ + \quad 9.005 \\ + \quad 3.700 \\ \hline 38.355 \end{array}$$

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(iv) $27.076 + 0.55 + 0.004$

By converting given decimals to like decimals, we get

$$\begin{array}{r} 27.076 \\ +\ 0.550 \\ +\ 0.004 \\ \hline 27.630 \end{array}$$

Q.4 Radhika's Mother gave her Rs 10.50 and her father gave her Rs. 15.80. Find the total amount given to Radhika by her parents.

Solution: Amount given by Mother = Rs 10.50

Amount given by father = Rs 15.80

∴ Total Amount given to Radhika = Rs 10.50 + Rs 15.80

$$\begin{array}{r} 10.50 \text{ Rupees} \\ +\ 15.80 \text{ Rupee} \\ \hline 26.30 \end{array}$$

∴ Total Amount Received by Radhika = Rs. 26.3

Q.5 Rahul bought 4 kg 90 g apples, 2 kg 60 g oranges and 5 kg 300 g mangoes. Find the weight of the fruits he bought in all.

Sol: Quantity of apples purchased = 4 kg 90 g = 4.090 kg

Quantity of mangoes purchased = 5 kg 300 g = 5.300 kg

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Quantity of oranges purchased = 2kg 60g = 2.060 kg

∴ weight of all fruits is :

$$\begin{array}{r} 4.090 \\ +\ 5.300 \\ +\ 2.060 \\ \hline 11.450 \end{array}$$

Thus, total weight of fruits = 11.450 kg
= 11kg 450g.

Q6 Nasreen bought 3m 20 cm cloth for her shirt and 2m 5 cm cloth for skirt. Find the total cloth bought by her.

Solution: Length of cloth purchased by Nasreen for shirt
= 3m 20cm = 3.20 m

length of cloth purchased for skirt = 2m 5cm
= 2.05 m.

∴ Total length of cloth purchased is

$$\begin{array}{r} 3.20 \\ +\ 2.05 \\ \hline 5.25\ m \end{array}$$

∴ Thus, total length of cloth = 5.25 cm
= 5m 25 cm.

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Q.7 Sunita travels 15 km 268 m by bus, 7 km 7 m by car and 500 m by foot in order to reach her school. How far is her school from her residence.

Solution

Distance travelled by bus = 15 km 268 m
= 15.268 km.

Distance travelled by car = 7 km 7 m
= 7.007 km.

Distance travelled by foot = 500 m = 0.500 km.

∴ Total Distance travelled is:

$$\begin{array}{r} 15.268 \\ +\ 7.007 \\ +\ 0.500 \\ \hline 22.775 \text{ km} \end{array}$$

Thus, total distance travelled = 22.775 km

Hence school is 22.775 km away from her residence.

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