Decimals Exercise 7A

Q1

Answer:

- (i) 58.63
- (ii) 124.425
- (iii) 7.76
- (iv) 19.8
- (v) 404.044
- (vi) 0.173
- (vii) 0.015

Q2

- (i) In 14.83, we have:
- Place value of 1 = 1 tens = 10
- Place value of 4 = 4 ones = 4
- Place value of 8 = 8 tenths = $\frac{8}{10}$
- Place value of 3 = 3 hundredths = $\frac{3}{100}$
- (ii) In 275.269, we have:
- Place value of 2 = 2 hundreds = 200
- Place value of 7 = 7 tens = 70
- Place value of 5 = 5 ones = 5
- Place value of 2 = 2 tenths = $\frac{2}{10}$
- Place value of 6 = 6 hundredths = $\frac{6}{100}$ Place value of 9 = 9 thousandths = $\frac{9}{1000}$
- (iii) In 46.075, we have:
- Place value of 4 = 4 tens = 40
- Place value of 6 = 6 ones = 6
- Place value of 0 = 0 tenths = $\frac{0}{10}$ = 0
- Place value of 7 = 7 hundredths = $\frac{7}{100}$
- Place value of 5 = 5 thousandths = $\frac{5}{1000}$

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(iv) In 302.459, we have:
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Place value of 3 = 3 hundreds = 300

Place value of 0 = 0 tens = 0

Place value of 2 = 2 ones = 2

Place value of 4 = 4 tenths =
$$\frac{4}{10}$$

Place value of 5 = 5 hundredths =
$$\frac{5}{100}$$

Place value of 9 = 9 thousandths = $\frac{9}{1000}$

(v) In 5370.34, we have:

Place value of 5 = 5 thousands = 5000

Place value of 3 = 3 hundreds = 300

Place value of 7 = 7 tens = 70

Place value of 0 = 0 ones = 0

Place value of 3 = 3 tenths = $\frac{3}{10}$

Place value of 4 = 4 hundredths = $\frac{4}{100}$

(vi) In 186.209, we have:

Place value of 1 = 1 hundreds = 100

Place value of 8 = 8 tens = 80

Place value of 6 = 6 ones = 6

Place value of 2 = 2 tenths = $\frac{2}{10}$

Place value of 0 = 0 hundredths = 0

Place value of 9 = 9 thousandths = $\frac{9}{1000}$

Q3

Answer:

$$=60 + 7 + \frac{8}{10} + \frac{3}{100}$$

$$=200+80+3+\frac{6}{10}+\frac{1}{100}$$

$$=20 + 4 + \frac{6}{10} + \frac{7}{100} + \frac{5}{1000}$$

(iv) 0.294

= 2 tenths + 9 hundredths + 4 thousandths
=
$$\frac{2}{10}$$
 + $\frac{9}{100}$ + $\frac{4}{1000}$

$$= \frac{2}{10} + \frac{9}{100} + \frac{4}{1000}$$

= 8 ones + 0 tenths + 0 hundredths + 6 thousandths = 8 +
$$\frac{0}{10}$$
 + $\frac{0}{100}$ + $\frac{6}{1000}$

$$=4000 + 600 + 10 + 5 + \frac{7}{10} + \frac{2}{100}$$

Q4

(i)
$$40 + 6 + \frac{7}{10} + \frac{9}{100} = 46 + 0.7 + .09 = 46.79$$

(ii)
$$500 + 70 + 8 + \frac{3}{10} + \frac{1}{100} + \frac{6}{1000} = 578 + 0.3 + 0.01 + 0.006 = 578.316$$

(iii)
$$700 + 30 + 1 + \frac{8}{10} + \frac{4}{100} = 731 + 0.8 + 0.04 = 731.84$$

(iv)
$$600 + 5 + \frac{7}{100} + \frac{9}{1000} = 605 + 0.07 + 0.009 = 605.079$$

(v)
$$800 + 5 + \frac{8}{10} + \frac{6}{1000} = 805 + 0.8 + 0.006 = 805.806$$

(vi)
$$30 + 9 + \frac{4}{100} + \frac{8}{1000} = 39 + 0.04 + 0.008 = 39.048$$

(i) Each of the numbers has maximum 3 decimal places. So, we convert them into numbers having three decimal places by annexing suitable number of zeroes to the extreme right of the decimal part.

7.5 = 7.500

64.23 = 64.230

0.074 = 0.074

(ii) Each of the numbers has maximum 3 decimal places. So, we convert them into numbers having three decimal places by annexing suitable number of zeroes to the extreme right of the decimal part.

0.6 = 0.600

5.937 = 5.937

2.36 = 2.360

4.2 = 4.200

(iii) Each of the numbers has maximum 2 decimal places. So, we convert them into numbers having three decimal places by annexing suitable number of zeroes to the extreme right of the decimal part.

1.6 = 1.60

0.07 = 0.07

3.58 = 3.58

2.9 = 2.90

(iv) Each of the numbers has maximum 3 decimal places. So, we convert them into numbers having three decimal places by annexing suitable number of zeroes to the extreme right of the decimal part.

2.5 = 2.500

0.63 = 0.630

14.08 = 14.080

1.637 = 1.637

Q6

Answer:

(i) 84.23 > 76.35

Since 84 is greater than 76, 84.23 is greater than 76.35. (Comparing the whole number parts)

(ii) 7.608 < 7.680

Since 8 is greater than 0 at the hundredths place, 7.608 is smaller than 7.680.

(iii) 8.34 < 8.43

Since 4 is greater than 3 at the tenths place, 8.34 is smaller than 8.43.

(iv) 12.06 > 12.006

Since 6 is greater than 0 at the hundredths place, 12.06 is greater than 12.006.

(v) 3.850 > 3.805

Since 5 is greater than 0 at the hundredths place, 3.850 is greater than 3.805.

(vi) 0.97 < 1.07

Since 1 is greater than 0, 0.97 is smaller than 1.07. (Comparing the whole number parts)

Q7

Answer:

(i) 5.8, 7.2, 5.69, 7.14, 5.06

Converting the given decimals into like decimals:

5.80, 7.20, 5.69, 7.14, 5.06

Clearly, 5.06 < 5.69 < 5.80 < 7.14 < 7.20

Hence, the given decimals can be arranged in the ascending order as follows:

5.06, 5.69, 5.80, 7.14 and 7.2

(ii) 0.6, 6.6, 6.06, 66.6, 0.06

Converting the given decimals into like decimals:

0.60, 6.60, 6.06, 66.60, 0.06

Clearly, 0.06 < 0.60 < 6.06 < 6.60 < 66.60

Hence, the given decimals can be arranged in the ascending order as follows:

0.06, 0.60, 6.06, 6.60 and 66.60

(iii) 6.54, 6.45, 6.4, 6.5, 6.05

Converting the given decimals into like decimals:

6.54, 6.45, 6.40, 6.50, 6.05

Clearly, 6.05 < 6.40 < 6.45 < 6.50 < 6.54

Hence, the given decimals can be arranged in the ascending order as follows: 6.05, 6.40, 6.45, 6.50 and 6.54

(iv) 3.3, 3.303, 3.033, 0.33, 3.003

Converting the given decimals into like decimals:

3.300, 3.303, 3.033, 0.330, 3.003

Clearly, 0.330 < 3.003 < 3.033 < 3.300 < 3.303

Hence, the given decimals can be arranged in the ascending order as follows: 0.33, 3.003, 3.033, 3.300 and 3.303

Q8

Answer:

(i) 7.3, 8.73, 73.03, 7.33, 8.073

Converting each decimal into like decimals:

7.300, 8.730, 73.030, 7.330, 8.073

Clearly, 73.030 > 8.730 > 8.073 > 7.330 > 7.300

Hence, the given decimals can be arranged in the descending order as follows:

73.03, 8.73, 8.073, 7.33 and 7.3

(ii) 3.3, 3.03, 30.3, 30.03, 3.003

Converting each decimal into like decimals:

3.300, 3.030, 30.300, 30.030, 3.003

Clearly, 30.300 > 30.030 > 3.300 > 3.030 > 3.003

Hence, the given decimals can be arranged in the descending order as follows:

30.3, 30.03, 3.3, 3.03 and 3.003

(iii) 2.7, 7.2, 2.27, 2.72, 2.02, 2.007

Converting each decimal into like decimals:

2.700, 7.200, 2.270, 2.720, 2.020, 2.007

Clearly, 7.200 > 2.720 > 2.700 > 2.270 > 2.020 > 2.007

Hence, the given decimals can be arranged in the descending order as follows:

7.2, 2.72, 2.7, 2.27, 2.02 and 2.007

(iv) 8.88, 8.088, 88.8, 88.08, 8.008

Converting each decimal into like decimals:

8.880, 8.088, 88.800, 88.080, 8.008

Clearly, 88.800 > 88.080 > 8.880 > 8.088 > 8.008

Hence, the given decimals can be arranged in the descending order as follows:

88.8, 88.08, 8.88, 8.088 and 8.008

Decimals Exercise 7B

Q1

Answer:

We have:

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

Q2

Answer:

We have:
$$0.6 = \frac{6}{10} = \frac{3}{5}$$

Q3

Answer:

We have:
$$0.08 = \frac{8}{100} = \frac{4}{50} = \frac{2}{25}$$

Q4

Answer:

We have:
$$0.15 = \frac{15}{100} = \frac{3}{20}$$

Q5

Answer:

We have:
$$0.48 = \frac{48}{100} = \frac{12}{25}$$

Q6

Answer:

We have:
$$0.053 = \frac{53}{1000}$$

We have:
$$0.125 = \frac{125}{1000} = \frac{25}{200} = \frac{5}{40} = \frac{1}{8}$$

Q8

Answer:

We have:

$$0.224 = \frac{224}{1000} = \frac{56}{250} = \frac{28}{125}$$

Q9

Answer:

We have:
$$6.4 = \frac{64}{10} = \frac{32}{5} = 6\frac{2}{5}$$

Q10

Answer:

We have:
$$16.5 = \frac{165}{10} \ = \ \frac{33}{2} \ = 16\,\frac{1}{2}$$

Q11

Answer:

We have:
$$8.36 = \frac{836}{100} = \frac{209}{25} = 8\frac{9}{25}$$

Q12

Answer:

We have:
$$4.275 = \frac{4275}{1000} \ = \ \frac{171}{40} \ = \ 4 \, \frac{11}{40}$$

Q13

Answer:

We have:
$$25.06 = \frac{2506}{100} = \frac{1253}{50} = 25 \frac{3}{50}$$

Q14

Answer:

We have:
$$7.004 = \frac{7004}{1000} = \frac{1751}{250} = 7\frac{1}{250}$$

Q15

Answer:

We have:
$$2.052 = \frac{2052}{1000} = \frac{513}{250} = 2\frac{13}{250}$$

Q16

Answer:

We have:
$$3.108 = \frac{3108}{1000} = \frac{777}{250} = 3\frac{27}{250}$$

Q17

Answer:

We have:
$$\frac{23}{10} = 2\frac{3}{10} = 2 + 0.3 = 2.3$$

We have:

$$\frac{167}{100} = 1 \frac{67}{100} = 1 + 0.67 = 1.67$$

Q19

Answer:

We have:

$$\frac{1589}{100} = 15 \frac{89}{100} = 15 + 0.89 = 15.89$$

Q20

Answer:

$$\frac{5413}{1000} = 5 \frac{413}{1000} = 5 + 0.413 = 5.413$$

Q21

Answer:

We have:

$$\frac{21415}{1000} = 21 \frac{415}{1000} = 21 + 0.415 = 21.415$$

Q22

Answer:

We have:

$$\frac{25}{4} = 6\frac{1}{4} = 6 + 0.25 = 6.25$$

Q23

Answer:

$$3\frac{\frac{3}{5} = \frac{18}{5}}{5}$$
5) 18 (3.6)
$$\frac{15}{30}$$

$$\frac{30}{\times}$$

We have:

$$3\frac{3}{5} = 3 + 0.6 = 3.6$$

Q24

Answer:

$$1\frac{4}{25} = \frac{29}{25}$$

$$\begin{array}{r}
25) 29 (1.16) \\
\underline{25} \\
40 \\
\underline{25} \\
150 \\
\underline{150} \\
\underline{\times}
\end{array}$$

We have:

$$1\frac{4}{25} = 1 + 0.16 = 1.16$$

$$5\frac{17}{50} = \frac{267}{50}$$

$$50) 267 (5.34) = \frac{250}{170} = \frac{150}{200} = \frac{200}{200} = \frac{200}{150} = \frac{150}{200} =$$

Q26

Answer:

$$12\frac{3}{8} = \frac{99}{8}$$

$$8)99 (12.375)$$

$$\frac{8}{19}$$

$$\frac{16}{30}$$

$$\frac{24}{60}$$

$$\frac{56}{40}$$

$$\frac{40}{\times}$$
We have:

We have:

$$12\frac{3}{8} = 12 + 0.375 = 12.375$$

Q27

Answer:

$$2\frac{19}{40} = \frac{99}{40}$$

$$40) 99 (2.475)$$

$$80$$

$$190$$

$$160$$

$$300$$

$$280$$

$$200$$

$$200$$

$$\times$$

We have:

$$2\frac{19}{40} = 2 + 0.475 = 2.475$$

Q28

$$\begin{array}{c} \frac{19}{20} \\ 20 \overline{)190} (.95) \\ \underline{180} \\ 100 \\ \underline{100} \\ \underline{\times} \\ \end{array}$$
 We have:
$$\frac{19}{20} = 0.95$$

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Answer:
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$$\frac{\frac{37}{50}}{50}$$
50)370(.74)
$$\frac{\frac{350}{200}}{\frac{200}{\times}}$$
We have:

$$\frac{37}{50} = 0.74$$

Q30

Answer:

We have:

$$\frac{107}{250} = 0.428$$

Q31

Answer:

$$\frac{3}{40}$$
 $40)300(.0.75)$
 $\frac{280}{200}$
 $\frac{200}{\times}$
We have:

$$\frac{3}{40} = 0.075$$

Q32

Answer:

$$\begin{array}{r}
 \frac{7}{8} \\
 8) 70 (.875) \\
 \underline{64} \\
 60 \\
 \underline{60} \\
 \underline{40} \\
 \underline{40} \\
 \underline{\times}
\end{array}$$

We have:

$$\frac{7}{8} = 0.875$$

Q33

- (i) 8 kg 640 g in kilograms: $8 \text{ kg} + 640 \text{ gm} = 8 \text{ kg} + \frac{640}{1000} \text{ kg}$ 8 kg + 0.640 kg = 8.640 kg
- (ii) 9 kg 37 g in kilograms: $9 \text{ kg} + 37 \text{ gm} = 9 \text{ kg} + \frac{37}{1000} \text{ kg}$ 9 kg + 0.037 kg = 9.037 kg
- (iii) 6 kg 8 g in kilograms: $6 \text{ kg} + 8 \text{ gm} = 6 \text{ kg} + \frac{8}{1000} \text{ kg}$ 6 kg + 0.008 kg = 6.008 kg

- (i) 4 km 365 m in kilometres:
- $4 \text{ km} + 365 \text{ m} = 4 \text{ km} + \frac{365}{1000} \text{ km}$ [Since 1 km = 1000 m]
- 4 km + 0.365 km = 4.365 km
- (ii) 5 km 87 m in kilometres:
 - $5 \text{ km} + 87 \text{ m} = 5 \text{ km} + \frac{87}{1000} \text{ km}$ [Since 1 km = 1000 m] 5 km + 0.087 km = 5.087 km
- (iii) 3 km 6 m in kilometres:
 - $3 \text{ km} + 6 \text{ m} = 3 \text{ km} + \frac{6}{1000} \text{ km}$ [Since 1 km = 1000 m] 3 km + 0.006 km = 3.006 km
- (iv) 270 m in kilometres: 270 km = 0.270 km [Since 1 km = 1000 m]
- (v) 35 m in kilometres:
 - $\frac{35}{1000}$ km = 0.035 km
- [Since 1 km = 1000 m]
- (vi) 6 m in kilometres:
 - $\frac{6}{1000}$ km = 0.006 km
 - [Since 1 km = 1000 m]

Q35

Answer:

- (i) 15 kg 850 g in kilograms:
 - 15 kg + 850 gm = 15 kg + $\frac{850}{1000}$ kg [Since 1 kg = 1000 gm]
 - 15 kg + 0.850 kg = 15.850 kg
- (ii) 8 kg 96 g in kilograms:
 - 8 kg + 96 gm = 8 kg + $\frac{96}{1000}$ kg [Since 1 kg = 1000 gm]
 - 8 kg + 0.096 kg = 8.096 kg
- (iii) 540 g in kilograms: $540 \text{ gm} = \frac{540}{1000} \text{ kg} = 0.540 \text{ kg}$ [Since 1 kg = 1000 gm]
- (iv) 8 g in kilograms: $8 \text{ gm} = \frac{8}{1000} \text{ kg} = 0.008 \text{ kg}$ [Since 1 kg = 1000 gm]

Q36

- (i) Rs 18 and 25 paise in rupees:
 - Rs 18 + 25 paise = Rs 18 + Rs $\frac{25}{100}$ [Since Re 1 = 100 paise] Rs 18 + Rs 0.25 = Rs 18.25
- (ii) Rs 9 and 8 paise in rupees:
 - Rs 9 + 8 paise = Rs 9 + Rs $\frac{8}{100}$ [Since Re 1 = 100 paise]
 - Rs 9 + Rs 0.08 = Rs 9.08
- (iii) 32 paise in rupees:
 - 32 paise = Rs $\frac{32}{100}$ = Rs 0.32 [Since Re 1 = 100 paise]
- (iv) 5 paise in rupees:
 - 5 paise = Rs $\frac{5}{100}$ = Rs 0.05 [Since Re 1 = 100 paise]

Decimals Exercise 7C

Q1

Answer:

9.6, 14.8, 37 and 5.9

Converting the decimals into like decimals:

9.6, 14.8, 37.0 and 5.9

Let us write the given numbers in the column form.

Now, adding:

9.6

14.8

37.0

5.9

67.3

Hence, the sum of the given numbers is 67.3.

Q2

Answer:

23.7, 106.94, 68.9 and 29.5

Converting the decimals into like decimals:

23.70, 106.94, 68.90 and 29.50

Let us write the given numbers in the column form.

Now, adding:

23.70

106.94

68.90

29.50

229.04

Hence, the sum of the given numbers is 229.04.

Q3

Answer:

72.8, 7.68, 16.23 and 0.7

Converting the decimals into like decimals:

72.80, 7.68, 16.23 and 0.70

Let us write the given numbers in the column form.

Now, adding:

72.80

7.68

16.23

0.70 97.41

Hence, the sum of the given numbers is 97.41.

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Q4
Answer:
18.6, 84.75, 8.345 and 9.7
Converting the decimals into like decimals:
18.600, 84.750, 8.345 and 9.700
Let us write the given numbers in the column form.
Now, adding:
  18.600
  84.750
   8.345
  9.700
 121.395
Hence, the sum of the given numbers is 121.395.
Q5
 Answer:
8.236, 16.064, 63.8 and 27.53
Converting the decimals into like decimals:
8.236, 16.064, 63.800 and 27.530
 Let us write the given numbers in the column form.
Now, adding:
   8.236
  16.064
  63.800
  27.530
  115.630
 Hence, the sum of the given numbers is 115.630.
Q6
Answer:
28.9, 19.64, 123.697 and 0.354
Converting the decimals into like decimals:
28.900, 19.640, 123.697 and 0.354
Let us write the given numbers in the column form.
Now, adding:
  28.900
  19.640
 123.697
  0.354
Hence, the sum of the given numbers is 172.591.
Q7
Answer:
4.37, 9.638, 17.007 and 6.8
Converting the decimals into like decimals:
4.370, 9.638, 17.007 and 6.800
Let us write the given numbers in the column form.
Now, adding:
  4.370
  9.683
 17.007
```

37.815 Hence, the sum of the given numbers is 37.815.

6.800

Q8

Answer:

14.5, 0.038, 118.573 and 6.84

Converting the decimals into like decimals:

14.500, 0.038, 118.573 and 6.840

Let us write the given numbers in the column form.

Now, adding:

14.500

0.038

118.573

6.840

139.951

Hence, the sum of the given numbers is 139.951.

09

Answer:

Earning on the 1st day of the week = Rs 32.60
Earning on the 2nd day of the week = Rs 56.80
Earning on the 3rd day of the week = Rs 72.00
Total earning = Rs 161.40

\cap 1 \cap

Answer:

Cost of the almirah = Rs 11025.00

Money spent on cartage = Rs 172.50

Money spent on repair = Rs 64.800

Total cost of the almirah = Rs 11262.3

∩11

Answer:

Distance covered by the taxi = 36 km 235 mDistance covered by the rickshaw = 4 km 085 mDistance covered on foot = 1 km 080 mTotal distance covered = 41 km 400 m

Q12

Answer:

Weight of sugar in the bag = 45 kg 080 gWeight of the empty bag = 0 kg 950 gTotal weight of the bag = 46 kg 030 g

Q13

Answer:

Length of cloth for his shirt = 2 m 70 cmLength of cloth for his pyjamas = 2 m 60 cmTotal length of cloth bought = 5 m 30 cm

Q14

Answer:

Length of cloth for her salwar = 2 m 05 cmLength of cloth for her shirt = 3 m 35 cmTotal length of cloth bought = 5 m 40 cm

Decimals Exercise 7D

Q1 Answer: Let us write the numbers in the column form with the larger one at the top. Now, subtracting: 53.74 - 27.86 25.88 :.53.74 - 27.86 = 25.88 Q2 Answer: Let us write the numbers in the column form with the larger one at the top. Now, subtracting: 103.87 -64.98 38.89 .: 103.87 - 64.98 = 38.89 Q3 Answer: Converting the given numbers into like decimals: 59.63 and 92.40 Let us write them in the column form with the larger number at the top. Now, subtracting: 92.40 - 59.63 32.77 ∴53.74 - 27.86 = 32.77

```
Answer:
Converting the given numbers into like decimals:
56.80 and 204.00
Let us write them in the column form with the larger number at the top.
Now, subtracting:
204.00
- <u>56.80</u>
 147.2
...204.00 - 56.80 = 147.2
Q5
Answer:
Converting the given numbers into like decimals:
127.38 and 216.20
Let us write them in the column form with the larger number at the top.
Now, subtracting:
216.20
- 127.38
88.82
∴ 216.20 - 127.38 = 88.82
Q6
Answer:
Converting the given numbers into like decimals:
39.875 and 70.680
Let us write them in the column form with the larger number at the top.
Now, subtracting:
 70.680
- <u>39.875</u>
30.805
.:.70.680 - 39.875 = 30.805
Q7
 Answer:
Converting the given numbers into like decimals:
348.237 and 523.120
Let us write them in the column form with the larger number at the top.
Now, subtracting:
 523.120
- <u>348.237</u>
 174.883
 .:. 523.120 - 348.237 = 174.883
Q8
Answer:
Converting the given numbers into like decimals:
458.573 and 600.000
Let us write them in the column form with the larger number at the top.
Now, subtracting:
 600.000
- <u>458.573</u>
 141.427
.:.600.000 - 458.573 =141.427
```

Let us write the numbers in the column form with the larger one at the top.

Now, subtracting:

206.321

- <u>149.456</u>

56.865

.: 206.321 - 149.456 = 56.865

Q10

Answer:

Converting the given numbers into like decimals:

3.400 and 0.612

Let us write them in the column form with the larger number at the top.

Now, subtracting:

3.400

- <u>0.612</u>

2.788

.:.3.400 - 0.612 = 2.788

Q11

Answer:

Converting the given decimals into like decimals, then adding and, finally, subtracting:

$$(37.60 + 72.85) - (58.678 + 6.090)$$

= $110.450 - 64.768$
= 45.682

Q12

Answer:

Converting the given decimals into like decimals, then adding and, finally, subtracting:

Converting the given decimals into like decimals, then adding and, finally, subtracting:

Q14

Answer:

Converting the given decimals into like decimals, then adding and, finally, subtracting:

Q15

Answer:

In order to get the number that must be added to 74.5 to get 91, we must subtract 74.5 from 91.0.

```
91.0
- 74.5
16.5
```

Thus, 16.5 is the required number.

Q16

Answer:

In order to get the number that must be subtracted from 7.300 to get .0862, we have to subtract 0.862 from 7.300.

```
7.300
- <u>0.862</u>
<u>6.438</u>
```

Thus, 6.438 is the required number.

Q17

Answer

In order to get the number by which 23.754 must be increased to get 50, we have to subtract 23.754 from 50.000.

```
50.000
-<u>23.754</u>
<u>26.246</u>
```

In order to get the number by which 84.50 must be decreased to get 27.84, we have to subtract 27.84 from 84.50.

84.50

-27.84

56.66

Q19

Answer:

Weight of Neelam's school bag = 6080 g {Converting into grams: $6 \text{ kg} + 80 \text{ g} = (6000 + 80) \text{ g} = 6080 \text{ g}}$

Weight of Garima's school bag = -5265 g {Converting into grams: 5 kg + 265 g = (5000 + 265)g = 5265 g}

Difference of the weights of bags = 815 g

Thus, the weight of Neelam's school bag is more than that of Garima's school bag by 815 grams, i.e. by 0.815 kg.

Q20

Answer:

 $\begin{aligned} & \text{Cost of the notebook} = & \text{Rs } 19.75 \\ & \text{Cost of the pencil} = & \text{Rs } 3.85 \\ & \text{Cost of the pen} = & + & \text{Rs } \underline{8.35} \\ & \text{Total cost payable} = & & \text{Rs } \underline{31.95} \end{aligned}$

Total money paid = Rs 50.00 Total money spent = -Rs 31.95 Balance = Rs 18.05

Thus, Kunal got back Rs 18.05 from the shopkeeper.

Q21

Answer:

Weight of the fruits = 5 kg 075 gWeight of the vegetables = + 3 kg 465 gTotal weight of the contents of the bag = 8 kg 540 g

Total weight of the bag with its contents = 9 kg 000 gTotal weight of the contents of the bag = -8 kg 540 gWeight of the empty bag = 0 kg 460 gThus, the weight of the empty bag is 460 grams.

Q22

Answer:

Converting into metres: 10 km 65 m = (10 + 0.065) m = 10.065 m 3 km 75 m = (3 + 0.075) m = 3.075 m

Distance covered by the scooter = 10.065 kmDistance covered by the bus = +3.075 kmTotal distance covered by the bus and the scooter = 13.140 km

Total distance between the house and the office = 14.000 kmTotal distance covered by the bus and the scooter = -13.140 kmDistance covered on foot = 0.860 km

... Distance covered by walking = 0.860 km = 860 metres

Decimals Exercise 7E

Q1 Answer: (c) 0.7 $\frac{7}{10}$ = 7 tenths = 0.7 Q2 Answer: (d) 0.05 $\frac{5}{100}$ = 5 hundredths = 0.05 Q3 Answer: (b) 0.009 $\frac{9}{1000}$ = 9 thousandths = 0.009 Q4 Answer: (a) 0.016 $\frac{16}{1000}$ = 16 thousandths = 0.016 Q5 Answer: (c) 0.134 $\frac{134}{1000}$ = 134 thousandths = 0.134

(a) 2.17
$$2\frac{17}{100} = 2 + \frac{17}{100} = 2 + 0.17 = 2.17$$

Q7

Answer:

(b)
$$4.03$$

 $4\frac{3}{100} = 4 + \frac{3}{100} = 4 + 0.03 = 4.03$

Q8

Answer:

b)
$$6.25 = 6 + 0.25 = 6 + = 6 + \frac{1}{4} = 6\frac{1}{4}$$

Q9

Answer:

(b) 0.24
$$\frac{6}{25} = 0.24$$

$$-50$$

$$100$$

$$-100$$

$$0$$

Q10

Answer:

(c)
$$4.875$$

 $4\frac{7}{8} = 4 + \frac{7}{8} = 4 + 0.875 = 4.875$

Q11

Answer:

(a)
$$24\frac{4}{5}$$

24.8 = 24 + 0.8 = 24 + $\frac{8}{10}$ = 24 + $\frac{4}{5}$ = $24\frac{4}{5}$

Q12

Answer:

(b) 2.04
$$2\frac{1}{25} = 2 + \frac{1}{25} = 2 + 0.04 = 2.04$$

Q13

Answer:

(c) 2.34
$$2 + \frac{3}{10} + \frac{4}{100} = 2 + 0.3 + 0.04 = 2.34$$

Q14

Answer:

(b)
$$2.06$$

 $2 + \frac{6}{100} = 2 + 0.06 = 2.06$

Q15

Answer:

(c)
$$0.0407$$

 $\frac{4}{100} + \frac{7}{10000} = 0.04 + 0.0007 = 0.0407$

(c)
$$\left(2 \times 1\right) + \left(6 \times \frac{1}{100}\right)$$

$$\frac{6}{100} \left(2 \times 1 \right) + \left(6 \times \frac{1}{100} \right)$$

Q17

Answer:

(d) 2.66

Converting the given decimals into like decimals:

2.600, 2.006, 2.660 and 2.080

Among the given decimals, 2.660 is the largest.

Q18

Answer:

(b) 2.002 < 2.02 < 2.2 < 2.222

Converting the given decimals into like decimals: 2.002, 2.020, 2.200, 2.222

... 2.002 < 2.02 < 2.2 < 2.222

Q19

Answer:

(a) 2.1

If we convert the given decimals into like decimals, we get 2.100 and 2.055. At tenths place, 1 is greater than 0. Thus, 2.100 is greater than 2.055.

Q20

Answer:

(b) 0.01 m

1 m = 100 cm

∴ 1 cm =
$$\frac{1}{100}$$
 m = 0.01 m

Q21

Answer:

(b) 2.05 m

2 m 5 cm =
$$(2 + \frac{5}{100})$$
 m = $(2 + 0.05)$ m = 2.05 m

Q22

Answer:

(c) 2.008 kg

1 kg = 1000 g

∴ 2 kg 8 g = 2 kg +
$$\frac{8}{1000}$$
 kg = (2 + 0.008) kg = 2.008 kg

Q23

Answer:

$$2 \text{ kg} + 56 \text{ g} = (2 + \frac{56}{1000}) \text{ kg} = (2 + 0.056) \text{ kg} = 2.056 \text{ kg}$$

Q24

Answer:

(c) 2.035 km

∴ 2 km 35 m =
$$(2 + \frac{35}{1000})$$
 km = $(2 + 0.035)$ km = 2.035 km

```
Answer:
(c) 4.804
0.4 + 0.004 + 4.4
Converting into like decimals and then adding:
 4.400
 0.004
+ 0.400
 4.804
Q26
Answer:
(a) 1.545
Converting into like decimals:
3.500 + 4.050 - 6.005
  3.500
+ 4.050
 7.550
  7.550
 -6.005
 1.545
Q27
 Answer:
 (b) 3.5
  6.3
 - <u>2.8</u>
  3.5
Q28
 Answer:
 (c) 1.41
 Converting into like decimals and then subtracting:
 - <u>3.60</u>
  1.41
Q29
 Answer:
 Converting into like decimals and then subtracting:
  2.0
 -0.7
  1.3
Q30
Answer:
(a) 0.8
Converting into like decimals and then subtracting:
 1.1
```

-<u>0.3</u> _0.8