Name : _____

Grade : **VI**

Subject : **Mathematics**

Chapter:8. Decimals

> **Objective Type Questions**

> **I. Multiple choice questions**

1. 0.023 lies between

    a) 0.2 and 0.3   b) 0.02 and 0.03   c) 0.03 and 0.029   d) 0.026 and 0.024

2. 0.7499 lies between

    a) 0.7 and 0.74   b) 0.75 and 0.79   c) 0.749 and 0.75   d) 0.74992 and 0.75

3. The decimal 0.238 is equal to the fraction

    a) $\frac{119}{500}$ b) $\frac{238}{25}$ c) $\frac{119}{25}$ d) $\frac{119}{50}$

4. Which of the following decimals is the smallest?

    a) 0.37   b) 1.52   c) 0.087   d) 0.105

5. 23. 564 correct to the tenths place is

    a) 21   b) 23.55   c) 23.6   d) 23.76

6. 15.8 – 6.73 is equal to

    a) 8.07   b) 9.07   c) 9.13   d) 9.25

7. 0.0+0.008 is equal to

    a) 0.15   b) 0.015   c) 0.078   d) 0. 008

8. Lowest form of decimal 0.05 is

    a) $\frac{3}{1000}$ b) $\frac{1}{200}$ c) $\frac{2}{200}$ d) $\frac{5}{100}$

9. Which of the following decimals is the greatest?

    a) 0.182   b) 0.0925   c) 0.29   d) 0.038

10. $19 + \frac{5}{10} + \frac{7}{10}$ in decimal is the greatest?

      a) 19.75   b) 19.057   c) 19.705   d) 19.57

11. Simplify ad mark the correct answer

      71.02 + 4.91 – 49.999

      a) 25.931   b) 25.941   c) 20.914   d) 39.964

1. b	2. c	3. a	4. c	5. c	6. b
7. c	8. b	9. c	10. d	11. a	

II. Multiple choice questions

1. The mixed fraction $5\frac{4}{7}$ can be expressed as :

      a) $\frac{33}{7}$ b) $\frac{39}{7}$ c) $\frac{33}{4}$ d) $\frac{39}{4}$

2. 0.07 + 0.008 is equal to :

      a) 0.15   b) 0.015   c) 0.078   d) 0.78

3. 13.572 correct to the tenths place is:

      a) 10   b) 13.57   c) 14.5   d) 13.6

4. 15.8 – 6.67 is equal to :

      a) 8.07   b) 9.07   c) 9.13   d) 9.25

5. Which of the following is the decimal form of "Two ones & five-tenth"?

      a) 0.2   b) 0.25   c) 2.5   d) 25.0

6. Which of the following is the decimal form of $\frac{12}{5}$?

      a) 0.24   b) 2.4   c) 1.4   d) 2.04

7. Which of the following is the corresponding fraction for 3.8?

      a) $\frac{19}{5}$ b) $\frac{19}{10}$ c) $\frac{38}{5}$ d) $\frac{380}{5}$

8. Which of the following represents 15 cm?

      a) 1.5   b) 0.015m   c) 0.15 m   d) 150 m

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9. 3.5 + 4.05 – 6.005=?

   a) 1.545   b) 1.095   c) 1.6   d) none of these

10. $\frac{4}{100} + \frac{7}{10000}$ = ?

   a) 0.47   b) 0.407   c) 0.0407   d) none of these

11. $2\frac{3}{100}$ = ?

   a) 2.003   b) 2.03   c) 2.3   d) none of these

12. The place value of 3 in 16.534 is:

   a) $\frac{3}{10}$ b) $\frac{3}{100}$ c) $\frac{3}{1000}$ d) 3

13. Among 2.6,2.006, 2.66 and 2.08, the largest number is:

   a) 2.006   b) 2.08   c) 2.6   d) 2.66

14. The correct expanded form of 2.06 is:

   a) $(2 \times 10) + \left(6 \times \frac{1}{100}\right)$ b) $(2 \times 10) + \left(6 \times \frac{1}{100}\right)$

   c) $(2 \times 1) + \left(6 \times \frac{1}{100}\right)$ d) none of these

15. Which of the following is correct:

   a) 2.006 > 2.06   b) 2.08 < 2.008   c) 2.6<2.06   d) 2.66 > 2.066

16. Which of the following is the correct order:

   a) 2.2 < 2.02 < 2.222   b) 2.002 < 2.02 < 2.2 < 2.222

   c) 2.02 <2.22 < 2.002 < 2.222

1. b	2. c	3. d	4. c	5. c	6. b	7. a	8. c
9. a	10. c	11. b	12. b	13. d	14. c	15. d	16. b

III. Multiple choice questions

1. 3-tenths =

   a) 0.3   b) 0.03   c) 0.003   d) 0.0003

2. Two tens and 2-tenths =

   a) 20.2   b) 2.02   c) 202   d) none of these

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3. One hundred and 1-one =

    a) 101   b) 1.01   c) 10.1   d) 0.104

4. Twelve point one =

    a) 12.1   b) 12.01   c) 1.21   d) 0.121

5. $\frac{2}{5}$ =

    a) 0.2   b) 0.02   c) 0.002   d) 0.0002

6. $\frac{12}{10}$ =

    a) 0.12   b) 1.2   c) 1.02   d) 1.002

7. $\frac{22}{10}$ =

    a) 0.22   b) 2.2   c) 2.02   d) 2.002

8. $1 + \frac{1}{10}$ =

    a) 0.11   b) 1.1   c) 1.01   d) 1.001

9. $\frac{5}{2}$ =

    a) 0.5   b) 0.2   c) 2.5   d) 0.25

10. $\frac{3}{5}$ =

    a) 0.6   b) 0.006   c) 0.0006   d) 0.06

11. $2\frac{1}{10}$ =

    a) 2.1   b) 2.01   c) 2.001   d) 2.0002

12. $\frac{16}{5}$ =

    a) 0.32   b) 3.2   c) 3.02   d) 3.002

13. 0.4 =

    a) $\frac{1}{5}$ b) $\frac{2}{5}$ c) $\frac{3}{5}$ d) $\frac{4}{5}$

14. 1.5 =

    a) $\frac{1}{2}$ b) $\frac{5}{2}$ c) $\frac{3}{2}$ d) $\frac{7}{2}$

15. 3.2 =

    a) $\frac{16}{5}$ b) $\frac{8}{5}$ c) $\frac{32}{5}$ d) $\frac{24}{5}$

16. 1.0 =

    a) $\frac{1}{1}$ b) $\frac{1}{2}$ c) $\frac{2}{4}$ d) $\frac{3}{9}$

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17. 1 mm =

    a) 0.1 cm   b) 0.01 cm   c) 0.001 cm   d) 0.0001 cm

18. 10 mm =

    a) 1.0 cm   b) 0.1 cm   c) 0.01 cm   d) 1.2 cm

19. 2 cm 2 mm =

    a) 2.2 cm   b) 0.22 cm   c) 2.1 cm   d) 1.2 cm

20. 111 mm =

    a) 11.1 cm   b) 1.11 cm   c) 0.111 cm   d) 0.0111 cm

21. Between which two whole numbers on the number line does the number 0.5 lie?

    a) 0 and 1   b) 1 and 2   c) 2 and 3   d) -1 and 0

22. Between which two whole numbers on the number line does the number 3.3 lie?

    a) 0 and 1   b) 1 and 2   c) 2 and 3   d) 3 and 4

23. Between which two whole numbers on the number line does the number 5.3 lie?

    a) 1 and 2   b) 2 and 3   c) 3 and 4   d) 5 and 6

24. 0.02 =

    a) $\frac{1}{25}$ b) $\frac{1}{50}$ c) $\frac{1}{100}$ d) $\frac{1}{10}$

25. 1.44 =

    a) $\frac{36}{25}$ b) $\frac{72}{25}$ c) $\frac{36}{50}$ d) $\frac{72}{100}$

26. $10 + 2 + \frac{1}{10} + \frac{2}{100} =$

    a) 12.12   b) 12.21   c) 11.11   d) 21.22

27. $111 + \frac{1}{100} =$

    a) 111.01   b) 111.1   c) 111. 001   d) 111. 0001

28. $\frac{2}{10} + \frac{3}{100} + \frac{4}{1000} =$

    a) 0.234   b) 2.34   c) 23.4   d) 234

29. $12 + \frac{2}{10} + \frac{4}{1000} =$

    a) 12.204   b) 12.024   c) 12.402   d) 12.240

30. 0.005 =

    a) $\frac{1}{2}$ b) $\frac{1}{20}$ c) $\frac{1}{200}$ d) $\frac{1}{2000}$

31. 0.625 =

    a) $\frac{1}{8}$ b) $\frac{2}{8}$ c) $\frac{3}{8}$ d) $\frac{5}{8}$

32. 10 paise =

    a) 0.1 rupee   b) 0.01 rupee   c) 0.001 rupee   d) 0.0001 rupee

33. 8 cm =

    a) 0.8 m   b) 0.08 m   c) 0.008 m   d) 0.0008 m

34. 40 mm

    a) 4 cm   b) 8 cm   c) 0.4 cm   d) 0.04 cm

35. 5 m

    a) 0.65 km   b) 0.05 km   c) 0.005 lm   d) 0.0005 km

36. 55 m =

    a) 0.055 km   b) 0.55 km   c) 0.0055 km   d) 5.5 km

37. 5 g

    a) 0.005 kg   b) 0.05 kg   c) 0.5 kg   d) none of these

38. 5 kg 5 g =

    a) 5.005 kg   b) 5.05 kg   c) 5.5 kg   d) 0.55 kg

39. 12 kg 20 g =

    a) 12.02 kg   b) 12.2 kg   c) 12.002 kg   d) 12.0002 kg

40. 1 kg 500 g =

    a) 1.5 kg   b) 1.05 kg   c) 1.005 kg   d) 1.0005 kg

1. a	2. a	3. a	4. a	5. a	6. b	7. b	8. b	9. c	10. a
11. a	12. b	13. b	14. c	15. a	16. a	17. a	18. a	19. a	20. a
21. a	22. d	23. d	24. b	25. a	26. a	27. a	28. a	29. a	30. c
31. d	32. a	33. b	34. a	35. c	36. a	37. a	38. a	39. a	40. a

1. Which of the following decimals is the smallest?

    a) 0.27   b) 1.5   c) 0.082   d) 0.103

2. $3\frac{18}{100}$ = ?

    a) 3.18   b) 3.018   c) 0.318   d) 31.8

3. 2 m 7 cm = ?

    a) 2.7 m   b) 2.07 m   c) 2.007 m   d) 0.27 m

4. 13.572 correct to the tenths place is

    a) 10   b) 13.57   c) 14.5   d) 13.6

5. 8 hundredths + 7 tenths is equal to

    a) 870   b) 0.87   c) 0.78   d) 0.078

6. The number from which 10.8 is to be subtracted to obtain 6.025 is

    a) 4.775   b) 16.033   c) 16.825   d) 16.105

7. 15.8 – 6.73 is equal to

    a) 8.07   b) 9.07   c) 9.13   d) 9.25

8. 0.07 + 0.008 is equal to

    a) 0.15   b) 0.015   c) 0.178   d) 0.78

1. c	2. a	3. b	4. d	5. c	6. c	7. b	8. c

I. Fill in the blanks

1. 2 km 590 m is equal to _____ km.

2. The value of 3.64 – 1.28 is _____.

3. The value of 50 coins of 50 paise = ₹

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4. 3 Hundredths + 2 tenths = _____.

5. 4.56 + 9.25 = _____.

6. $9 + \frac{2}{10} + \frac{6}{100}$ is equal to the decimal number _____.

7. Decimal 16.25 is equal to the fraction _____.

8. Fraction $\frac{7}{25}$ is equal to the decimal number _____.

9. 3 parts out of 100 = _____.

10. 9 cm 8 mm = _____ cm

1. 2.590	2. 2.36	3. ₹ 25	4. 0.23	5. 13.81	6. 9.26	7. $\frac{1625}{100}$	10. 9.8 cm
8. 0.28	9. 0.03	10. 9.8 cm					

II. Fill in the blanks

1. Fraction $\frac{7}{25}$ is equal to the decimal number _____.

2. 4.55 + 9.73 = _____.

3. 8.76 – 2.68 = _____.

4. 3 hundredths + 3 tenths = _____.

5. _____ separates whole number and factional part of a decimal number.

6. Decimal having the same number of places are called _____ decimals.

7. 72 mm = _____ cm

8. 50 km 34 m _____km

9. Decimal comes from _____ word decem which means _____.

1. 0.28	2. 14.28	3. 6.08	4. 0.33	5. Decimal	6. Like	7. 7.2	8. 50034 km	9. Latin,10

I. Match the followings

a) $200 + 23 + 5 + \frac{3}{100}$	i) 40.00
b) 20.95 + 19.05	ii) 400.20
c) 600.40 – 200.20	iii) 228.03
d) $\frac{3}{25}$	iv) 0.12

a) iii	b) i	c) ii	d) iv

II. Match the followings

a) Decimal which do not have same number of place	i) 2.02
b) ₹ 2 and **2 paise can be written as**	ii) 10
c) 21 and 2 ml can be written as	iii) 2.002
d) Decem means	iv) 2
e) Number of parts of a decimal number	v) unlike

a) v	b) i	c) iii	d) ii	e) iv

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1. In the decimal form, fraction $\frac{25}{8}$ = 3.125.

2. The decimal 23.2 = 23 $\frac{2}{3}$

3. The place value of a digit at the tenths place is $\frac{1}{10}$ times the same digit at ones place.

4. The place value of a digit at the hundredths place is $\frac{1}{10}$ times the same digit at the tenths place.

5. The decimal 3.725 is equal to 3.72 correct to two decimal places.

6. 180 m 28 cm = 180.028 m

7. Forty five point zero six four is equal to 45.064.

8. 2 kg 52 g is equal to 2.052 g.

9. 4 parts out of 100 = $\frac{1}{25}$

10. 13 rupees 30 paise = ₹ 13.03

1. True	2. False	3. True	4. True	5. False
6. False	7. True	8. False	9. True	10. False

II. True or False

1. The place value of a digit at the tenths place is 10 times the same digit at the ones place.

2. 3.03 + 0.016 = 3.019

3. 42.28 – 3.19 = 39.09

4. 19.25 < 19. 053

5. 13.730 = 13.73

6. $3.02 < 3.2$

7. $\frac{341}{1000}$ = 3.410

8. 2.3, 3.41, 4.53, 5.61 are examples of like decimals

9. 3 g = 0.003 kg.

10. 6.2 and 6.200 are equivalent decimals.

11. 6.41 and 18.03 are like decimals.

1. False	2. False	3. True	4. False	5. True	6. True
7. False	8. False	9. True	10. True	11. True	

I. Very Short Answer Type Questions

1. **Write three hundred five and four-hundredth as decimal form.**

   Given word can be written as 305.04.

2. **Write 2. 4 as fraction in lowest terms.**

   Here, 2.4 = $2 + \frac{4}{10} = 2 + \frac{2}{5} = \frac{12}{5}$

3. **Write 200 + 40 + 5 + $\frac{2}{100}$ as decimals.**

   Here, $200 + 40 + 5 + \frac{2}{100}$ = 200 + 40 + 5 + 0.02

   = 245.02

4. **Which one is greater 1 or 0.98?**

   Here, 1 = $1 + \frac{0}{10} + \frac{0}{100}$

   or 0.98 = $0 + \frac{9}{10} + \frac{8}{100}$

   Since, whole of 1 is greater than whole of 0.98.

   ∴ $1 > 0.98$

5. **Write ₹ 12 and 80 paise in rupees using decimal.**

Given, ₹ 12 and 80 paise

$$= ₹ \left(12 + \frac{80}{100}\right) = ₹ \ 12.80$$

6. **Convert 5214 g to kg.**

We know that, 1000 g = 1 kg

$$\therefore 5214 \ g = \frac{5214}{1000} kg = 5.214 \ kg$$

7. **Which one is greater $200 + 7 + \frac{2}{10} + \frac{4}{1000}$ or 207.24?**

We have,

$$200 + 7 + \frac{2}{10} + \frac{4}{1000} = 207.204$$

$$\therefore 207.24 > 207.204$$

Hence, 207.24 is greater.

II. Very Short Answer Type Questions

1. **Express 0.041 as a fraction.**

$$0.041 = \frac{041}{1000} = \frac{41}{1000}$$

2. **Express 6.03 as a mixed fraction.**

$$6.03 \ \frac{603}{100} = 6\frac{3}{100}$$

3. **Express $3\frac{2}{5}$ as a decimal.**

$$3\frac{2}{5} = \frac{17}{5} = 3.4$$

4. **Round off 20.83 to nearest tenths.**

For rounding off to tenths place, we look at the hundredths place.

Here, the digit is 3.

So, the digit at the tenth place (8) will not be increased by 1.

i.e., it will be equal to 0.

Hence, rounding off 2083 to nearest tenths, we get 20.80.

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5. **Round off 75.195 to nearest hundredths**

   For rounding off to hundredths place, we look at the thousandths place, here, the digit is 5.

So, he digit at the hundredths place (9) will be increased by 1 (*i.e.*, it will becomes 9 +1)

Hence, the rounding off 75.195 to hundredths place, we get 75.200.

6. **Round off 27.981 to nearest tenths.**

   For rounding off to tenths place, we look at the hundredths place, here the digit is 8.

   So, the digit of the tenths placer (9) will be increased by 1. (*i.e.*, it will becomes 9 + 1 = 10)

$\therefore 27.0 = 27 + 10 = 280$

   Hence, the round off 27.981, we get 28.0.

7. **Express $\frac{11}{20}$ as a decimal**

   $\frac{11}{20} = 0.55$ or $\frac{11}{20} = \frac{11 \times 5}{20 \times 5} = \frac{55}{100} = 0.55$

8. **Add the following 20.02 and 2.002**

   20.020

   + 2.002 _____

   22.022 _____

9. **Arrange in ascending order.**

   0.011,   1.001,   0.101,   0.110.

   Ascending order of given numbers are

   0.11 < 0.101< 0.110< 1.001

10. **Arrange 12.142, 12.124, 12.104, 12.401 and 12.214 in ascending order.**

    Ascending order of given numbers are 12.104 < 12.124 < 12.142 < 12.214 < 12.401

11. **Write 49 as decimal number.**

    49.0

12. **Which is greater 4.301 or 4.310?**

    4.310

13. **Complete it 0.0142, 1.42,_____, _____.**

    14.2, 142

14. **Convert 50 paisa to rupees.**

    0.50

15. **Convert 250571 ml into liters**

    250.571 liters

16. **How many meters makes one km?**

    1000

17. **How many hundredth make one-tenth?**

    10

18. **Compare 63.84 and 57.98.**

    The given decimals are 63.84 and 57.98. let us compare their whole-number parts. Clearly,

    63 >57

    ∴63.84 > 57.98

19. **Subtract 28.65 from 73.**

    73.00

    - 28.65
    _____

    44.35

    Hence, 73 – 28.65 = 44.35

III. Very Short Answer Type Questions

1. **Which is larger: 2.1 or 2.055?**

    2.1

2. **Among 22.6, 2.006, and 2.08 which one is largest?**

    2.66

3. **Which is smallest: 5.09 or 5.103?**

    5.09

4. **Is 13.730 = 13.73?**

    Yes, they are equal.

5. What is the place value of 5 in 0.04532?

Place value = $\frac{5}{1000}$.

6. Write fraction for 16.1.

$16\frac{1}{10}$

7. Write $7\frac{9}{10}$ in decimals.

$7\frac{9}{10} = 7.9$

8. Which decimal number does five ones and seven tenths represent?

5 ones and seven tenths = $5 + \frac{7}{10} = 5.7$.

9. Write $600 + 2 + \frac{8}{10}$ as decimals.

$600\ 2 + \frac{8}{10} = 602.8$

10. Express 65 paise in rupees

65 paise = ₹ $\frac{65}{100}$ = ₹0.65

I. Short Answer Type Questions

1. Write each of the following as decimals.

a. $\frac{12}{10}$ b. $\frac{125}{100}$

Here

(a) $\frac{12}{10} = 1.2$ (b) $\frac{125}{100} = 1.25$

2. Write as fraction in lowest form.

a. 0.65   b. 4.50

Here

$(a) 0.65 = \frac{65}{100} = \frac{13}{20}$ (b) $4.50 = 4 + \frac{50}{100} = 4 + \frac{1}{2} = 4\frac{1}{2} = \frac{9}{2}$

3. What should be added to 25.5 to get 60?

We subtract 25.5 from 60 to get the required result.

$\therefore$
     60.0

     -25.5

     ————

     34.5

4. Subtract

 a. ₹ 5.36 from ₹ 9.48

 b. 0.316 kg from 2.876 kg.

 a. ₹ 9.48 - ₹ 5.36

i.e.   9.48

    -5.36

    ————

    4.12

 b. 2.876 kg - 0.316 kg

  i.e.   2.876

     -0.316

     ————————

     2.560 kg

5. Express in kilometers, using decimals.

 a. 15 km 245 m   **b. 19 km 48 m**

We know that, 1000 m = 1 km

a. 15 km 245 m = 15 km + $\frac{245}{1000}$ km

  = 15 km + 0.245 km = 15.245 km

b. 19 km 48 m = 19 km + 48nm

  = 19 km + $\frac{48}{1000}$ km

  = 19 km + 0.048 km

  = 19.048 km

6. **Add 67.25, 249, 8.785 and 0.23.**

Converting the given decimals into like decimals, we get

67.250, 249.000, 8.785, 9.800 and 0.230

Here,

$$\begin{array}{r} 67.250 \\ 249.000 \\ 8.785 \\ 9.800 \\ + \quad 0.230 \\ \hline 335.065 \end{array}$$

7. **Simplify 53.5 – 34.68 + 64.75 – 28.9.**

Converting the given decimals into like decimals, we get

53.5 – 34.68 + 64.75 – 28.9

= (53.50 + 64.75) – (34.68 + 28.90)

= 118.25 – 63.58   = 54.67

8. **What should be added to 60.30 to obtain 100.70?**

Suppose x should be added to 60.30 to set 100.70.

∴   60.30 + x = 100.70

x = 100.70 – 60.30

$$\begin{array}{r} 100.70 \\ - \quad 60.30 \\ \hline 40.40 \end{array}$$

∴   x = 40.40

Hence, required result is 40.40.

9. **How will you write $19\frac{3}{100}$ as decimal?**

$19\frac{3}{100} = 19\frac{3}{100} = 19 + 0.03 = 19.03$

10. **During three days of a week, a rickshaw puller earns ₹ 40.20, ₹ 60.10 and ₹ 55, respectively. What is his total earning during these days?**

Earning on 1st day = ₹ 40.20

Earning on 2nd day = ₹ 60.10

Earning on 3rd day = + ₹ 55.00

∴ Total earning   = ₹ 155.30

11. **What should be subtracted from 117.47 to get 47.95?**

To get the required number, we have

$$117.47 - 47.95 = 69.52$$

II.   Short Answer Type Questions

1. **What should be added to 25.2 to get 50?**

Here, he want to fill in the box in 25.5 + _____ = 50

For this we will have to find 50 – 25.5

We perform this operation as follows by written the two numbers having equal number of

decimal places. $i.e.,$ 50 = 50.0

Subtract 25.5 from 50.0 = 50.0 – 25.5 = 24.5

Hence, the required number to be added to 25.5 is 24.5.

2. **Write the largest four digit decimal number less than 1 using the digits 1,5,3 and 8 once.**

Here, largest four digit number by using 1, 5, 3 and 8 is 8531.

For four digit decimal number less than, 1, we divided 8531 by 10000.

$$i.e., \frac{8531}{10000} = 0.8531$$

Hence, the required decimal number is 0.8531.

3. **Using the digits 2, 4, 5 and 3 once, write the smallest four digit decimal number.**

Here, smallest four digit number by using 2, 4, 5 and 3 is 2345.

For four digit decimal number, we divided 2345 by 10000.

$$i.e., \frac{2345}{10000} = 0.2345$$

Hence, the required decimal number is 0.2345.

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4. Find

(i) $80 + 2 + \dfrac{1}{10}$

(ii) $99 + \dfrac{9}{10} + \dfrac{9}{1000}$

(i) $80 + 2 + \dfrac{1}{10} = 82 + \dfrac{1}{10}$

$$= \dfrac{820+1}{10} = \dfrac{821}{10}$$

$$= 82.1$$

(ii). $99 + \dfrac{9}{10} + \dfrac{9}{1000} = \dfrac{99000+900+9}{1000}$

$$= \dfrac{99909}{1000} = 99.909$$

5. Isha travelled 15 km 28 m by bus, 9 km 814 m by car and rest 2 km 25 m by bicycle.

How much distance did she travelled in all?

Total distance travelled

$$= 15 \text{ km } 28 \text{ m} + 9 \text{ km } 814 \text{ m} + 2 \text{ km } 25 \text{ m}$$

$$= 15.028 + 9.814 + 2.025$$

$$= 26.867 \text{ km}$$

$$= 26 \text{ km } 867 \text{ m}$$

6. Simplify: 53.5 – 34.68 + 64.75.

$53.5 - 34.68 + 64.75 = 53.50 - 34.68 + 64.75$

[By converting decimals into like decimals]

$$= (53.50 + 64.75) - 34.68$$

$$= 118.25 - 34.68$$

$$= 83.57$$

7. Express 5 km 245 m in kilometers.

$$5 \text{ km } 245 \text{ m} = 5 \text{ km} + 245 \text{ m}$$

$$= 5 \text{ km} + \dfrac{245}{1000} \text{ km}$$

$$= 5 \text{ km} + 0.245 \text{ km}$$

$$= 5.245 \text{ km}$$

8. Express 26 and 75 paisa in rupees, using decimals.

26 and 75 paise $= 26 + \dfrac{75}{100}$

$$= 26 + 0.75 \qquad = 26.75$$

1. **Kritika's weight is 35 kg 75 g and her sister Khushi's weight is 27 kg 980 g. by how much is Kritika heavier?**

    Sol. Kritika's weight = 35 kg 75 g = 35.075 kg

    Khushi's weight = 27 kg 980 g = 27.980 kg

    Difference= 35.075 – 27.980 = 7.095 kg

    Kritika's is heavier than Khushi by 7.095 kg or 7 kg 95 g

IV. Short Answer Type Questions

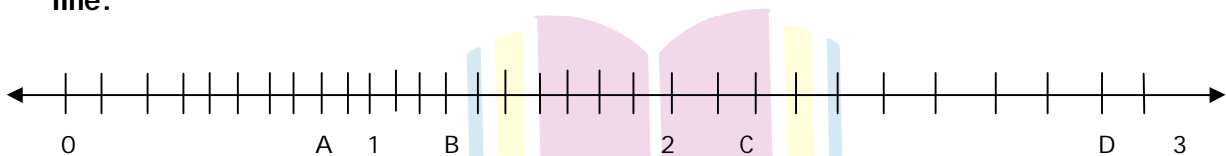1. **Express $\frac{11}{20}$ as a decimal.**

    $\frac{11}{20} = \frac{11 \times 5}{20 \times 5} = \frac{55}{100} = 0.55$

2. **Convert 5201 g to kg.**

    Since 1000 g = 1 kg

    Therefore, 5201 g = $\frac{5201}{1000} kg = 5.201$.

3. **Write the decimal number represented by the points A, B, C, D on the given number line.**

    Here,

    A = 0.8 cm

    B = 1.3 cm

    C = 2.2 cm

    D = 2.9 cm

4. **Which is greater 1.431 or 1.490?**

$1.431 = 1 + \frac{4}{10} + \frac{3}{100} + \frac{1}{1000}$

$1.490 = 1 + \frac{4}{10} + \frac{9}{100} + \frac{0}{1000}$

Here, the two numbers have sane part upto tenth. But the hundredth part of 1.490 is greater than 1.431.

Therefore, 1.490> 1.431.

5. **Fill in the blanks:**

i. $9 + \frac{2}{10} + \frac{6}{100}$ is equal to the decimal number _____.

ii. **3 hundredths + 3 tenths = _____.**

iii. **8.76 – 2.68 = _____.**

iv. **7690 paise can be written in Rs as _____.**

(i) 9.26   (ii) 0.33   (iii) 6.08   (iv) 76.90

6. **Convert 2435 m to km and express the result as mixed fraction.**

We know, 1000 m = 1 km

So, 2435 m = $\frac{2435}{1000} km$ = 2.435 km

Now, we convert it to mixed fraction, i.e.

2.435 km = 2 km + $\frac{435}{1000} km$

$= 2 + \frac{87}{200} km = 2\frac{87}{200} km.$

7. **Which one is greater?**

1 meter 40 centimetres + 60 centimetres or 2.6 metres.

Here,

1 m 40 cm = 1 m + $\frac{40}{100}$ m = 1 + 0.40m = 1.40 m

and, 60 cm = $\frac{60}{100}$ m = 0.60 m

We need,

1 m 40 cm + 60 cm = 1.40 m + 0.60 m = 2 m

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Here both numbers are same till 2 but tenths part of 2.60 is more than 2.00, so

2.60 > 2.00

Therefore, 2.60 m is greater than 2.00 m.

8. **What should be added to 25. 5 to get 50?**

Here, we have to find 50 – 25.5 we perform this by writing two numbers having equal

number of decimal places:

(Since 50 = 50.00)

$$50.00$$
$$-25.50$$
$$\overline{24.\,50}$$

Hence, required number is 24.50.

9. **Rashid spend Rs 35.75 for Mathsbook and Rs 32. 60 for Science book. Find the total amount spent by Rashid.**

Money spent on maths book =₹ 35.75

money spent science book   = ₹ 32.60

Total money spent = ₹ 35.75 +₹ 32.60

$$35.75$$
$$+32.60$$
$$\overline{68.35}$$

Total money spent =₹ 68.35.

10. **Naresh walked 2 km 35 m in the morning and 1 km 7 m in the evening. How much distance**. **Did he walk in all?**

Distance travelled in morning = 2 km 35 m =2.035 km

Distance travelled in evening = 1 km 7 m = 1.007 km

Total distance travelled is

$$2.035$$
$$+\,1.007$$
$$\overline{3.042}$$

Distance he walked is 3.042 km.

11. **Tina had 20 m 5 cm long cloth. She cuts 4 m 50 cm length of cloth from this for making a curtain. How much cloth is left with her?**

Total lengths of cloth = 20 m 5 cm = 20.05 m

Length of cloth used = 4 m 50 cm = 4.50 m

Cloth left with her is

$$20.05$$
$$-4.50$$
$$\overline{15.55}$$

Cloth left with her is 15.55 m.

---

1. **Veenu purchased 2 kg 300 g tomatoes, 350 g dhania, 6 kg 400 g onion, 800 g palak and 4 kg 700 g potatoes. Find the total weight of her purchases in kilograms.**

We know that, 1 kg = 1000 g

Weight of tomatoes = 2 kg 300 gm = 2.300 kg

Weight of dhania = 350 g = o.350 kg

Weight of onion = 6 kg 400 g = 6.400 kg

Weight of palak = 800 g = 0.800 kg

Weight of potatoes = 4 kg 700 g = + 4.700 kg

∴   Total weight = $\overline{14.550}$ kg

Hence, total weight of his purchases is 14.550 kg.

2. **Rajesh covers journey by car in 3 h. he covers a distance 60 km 320 m during first hour, 54 km 70 m during the second hour and 65 km 9 m during the third hour. What is the total distance covered in his journey?**

We know that = 1000 m = 1 km

∴ 1 m = $\frac{1}{1000}$ km

Now, distance covered during the first hour = 60.320 km

Distance covered during the second hour = 54.070 km

Distance covered during the third hour = 65.009 km

∴   Total distance = $\overline{179.399}$ km

Hence, total length of journey is 179.399 km.

3. Sohan purchased a book, a pen and a notebook for ₹ 165.35, ₹ 70 and ₹ 20.50, respectively. How much money will he have to pay to the shopkeeper for these items?

$$Cost\ of\ a\ book = ₹\ 165.35$$

$$Cost\ of\ a\ book = ₹\ 70.00$$

$$Cost\ of\ a\ notebook = + ₹\ 20.50$$

$$∴ \qquad Total\ cost = ₹\ 255.85$$

Hence, total money to be paid by Ramesh is ₹ 255.85.

4. Reshma went to the market with ₹ 5000 cash. Out of this money she purchased one frock, one toy and one bag costing ₹ 1150.48, ₹ 540.52 and ₹ 2160.70, respectively. How much money is left with her?

$$Reshma\ has\ cash\ in\ hand = ₹\ 5000$$

$$Cost\ of\ one\ frock = ₹\ 1150.48$$

$$Cost\ of\ one\ toy = ₹\ 540.52$$

$$Cost\ of\ one\ bag = ₹\ 2160.70$$

$$∴ \qquad Total\ cost = ₹\ 3851.70$$

$$Total\ cash\ in\ hand = ₹\ 5000.00$$

$$Total\ money\ spent = - ₹\ 3851.70$$

$$∴ \qquad Balance = ₹\ 1148.30$$

Hence, the money left with Reshma is ₹ 1148.30.

5. Seema has ₹ 2000, she bought readymade garments for ₹ 987.50, medicines for ₹ 210.25, groceries for ₹ 530.25. She donated ₹ 200 for charity.

    a. How much money is left with her?

    b. Mention the value you depict form this.

    a. Total money that Seema has = ₹ 2000.

$$Cost\ of\ readymade\ garments = ₹\ 987.50$$

$$Cost\ of\ medicines = ₹\ 210.25$$

$$Cost\ of\ groceries = + ₹\ 530.25$$

$$Total\ cost = ₹\ 1728.00$$

Money donate for charity = ₹ 200

$$= ₹ 1728.00$$

$$\text{Total money spent} = + ₹ 200.00$$

$$= ₹ 1928.00$$

$$\text{Money she had} = ₹ 2000$$

$$\text{Spent money} = - ₹ 1928$$

$$\text{Balance} = ₹ 072$$

So, ₹ 72 are left with her.

b. Humanity, helpfulness.

6. **The place value of a digit at the tenths place is 10 times the same digit at the ones place. State whether the statement is true or false?**

False, because the place value of a digit at the ones place,

e.g. Let a number be 23.37.

Here, place value of 3 at ones place = 3

and place value of 3 at tenths place $= \frac{3}{10} = 3 \times \frac{1}{10} = \frac{1}{10} \times$ Place value of 3 at ones place

7. **Arrange 12.142, 12.124, 12.104, 12.401 and 12.214 in ascending order.**

Given numbers are 12.142, 12.124, 12.104, 12.401 and 12.214.

$$\therefore 12.142 = 10 + 2 + \frac{1}{10} + \frac{4}{100} + \frac{2}{1000}$$

$$12.124 = 10 + 2 + \frac{1}{10} + \frac{2}{100} + \frac{4}{1000}$$

$$12.104 = 10 + 2 + \frac{1}{10} + \frac{0}{100} + \frac{4}{1000}$$

$$12.401 = 10 + 2 + \frac{4}{10} + \frac{0}{100} + \frac{1}{1000}$$

$$12.214 = 10 + 2 + \frac{2}{10} + \frac{1}{100} + \frac{4}{1000}$$

Here, whole part of all numbers are same and tenths part of 12.142, 12.124 and 12.104 are same.

Now, tenths part of $12.401 = \frac{4}{10}$

and tenths part of $12.214 = \frac{2}{10}$

$$\therefore \qquad \frac{4}{10} > \frac{2}{10}$$

$$\therefore \qquad 12.401 > 12.214$$

Again, hundredths part of $12.142 = \frac{4}{100}$

$$\therefore \qquad \text{Hundredths part of } 12.124 = \frac{2}{100}$$

and hundredths part of $12.104 = \frac{0}{100}$

$$\therefore \quad \frac{4}{100} > \frac{2}{100} > \frac{0}{100}$$

$$\therefore \quad 12.142 > 12.124 > 12.104$$

Hence, the ascending order of given number are

12.104 < 12.124 < 12.142 < 12.214 < 12.401.

8. **Round off 20.83 to nearest tenths.**

For rounding off to tenths place, we look at the hundredths place.

Here, the digit is 3.

So, the digit at the tenths place (8) will not be increased by 1.

$\therefore$ 3 will be written as equal to zero.

Hence, rounding off 20.83 to nearest tenths, we get 2080.

9. **Alok purchased 1 kg 200 g potatoes, 250 g dhania, 5 kg 300 g onion, 500 g palak and 2 kg 600 g tomatoes. Find the total weight of his purchases in kilograms.**

First, we convert all the weight in the same unit i.e. gram into kilogram and then find the total weight.

Given, weight of potatoes = 1 kg + 200 g

$$= 1 \text{ kg} + 200 \text{ g}$$

$$= 1 \text{ kg} + \frac{200}{1000} \text{ kg}$$

$$= 1 \text{ kg} + 0.200 \text{ kg} = 1.200 \text{ kg} \quad [\because \ 1 \text{ g} = \frac{1}{1000} \text{ kg}]$$

Weight of dhania = 250 g = $\frac{250}{1000}$ kg = 0.250 kg

Weight of onion = 5 kg 300 g = 5 kg + 300 g

$$= 5 \text{ kg} + \frac{300}{1000} \text{ kg}$$

$$= 5 \text{ kg} + 0.300 \text{ kg}$$

$$= 5.300 \text{ kg}$$

Weight of palak = 500 g = $\frac{500}{1000}$ kg = 0.500 kg

Weight of tomatoes = 2 kg 600 g = 2 kg + 600 g

$$= 2 \text{ kg} + \frac{600}{1000} \text{ kg} \qquad [\because \ 1 \text{ g} = \frac{1}{1000} \text{ kg}]$$

$$= 2 \text{ kg} + 0.600 \text{ kg} = 2.600 \text{ kg}$$

$\therefore$ Total weight of his purchases in kilograms

= Weight of potatoes + Weight of dhania + Weight of onion +

Weight of palak + Weight of tomatoes

= 1.200 kg + 0.250 kg + 5.300 kg + 0.500 kg + 2.600 kg

$$= [1.200 + 0.250 + 5.300 + 0.500 + 2.600] \text{ kg}$$

$$
\begin{array}{r}
1.200 \\
0.250 \\
5.300 \\
0.500 \\
+\ 2.600 \\
\hline
9.850 \\
\end{array}
$$

Hence, the total weight is 9.850 kg.

10. **Which one is grater 1 m 40 cm + 60 cm or 2.6 m?**

Given, 1 m 40 cm + 60 cm = 1 m + 40 cm + 60 cm

$$= 1 \text{ m} + 100 \text{ cm}$$

We know that, $1 \text{ cm} = \frac{1}{100} \text{ m}$

$\therefore$ 1 m 40 cm + 60 cm = $1 \text{ m} + \frac{100}{100} \text{ m}$

$$= 1 \text{ m} + 1 \text{ m} = 2.0 \text{ m}$$

On comparing 2.0 m and 2.6 m.

We have, $2.0 = 2 + \frac{0}{10}$ and $\quad 2.6 = 2 + \frac{6}{10}$

Here, whole part of both numbers are same is i.e. 2.

Now, tenths part of 2 = $\frac{0}{10}$ and tenths part of 2.6 = $\frac{6}{10}$

$\therefore \qquad \frac{6}{10} > \frac{0}{10}$

Hence, 2.6 is greater than 2.

II.   Long Answer Type Questions

1. **Alok purchased 1 kg 200 g potatoes, 250 g dhania, 5 kg 300 g onion, 500 g palak and 2 kg 600 g tomatoes. Find the total weight of his purchases in kilograms.**

Sol. Firstly, we convert all the weight in the same unit *i.e.*, gram into kilogram by divide 1000 and then find the total weight.

Given, weight of potatoes = 1 kg 200 g = 1 kg + 200 g

$$= 1 \text{ kg} + \frac{200}{1000} \text{ kg}$$

$$= 1 \text{ kg} + 0.200 \text{ kg}$$

$$= 1.200 \text{ kg} \qquad [\because 1 \text{ g} = \frac{1}{100} \text{ kg}]$$

Weight of dhania = 250 g = $\frac{250}{1000}$ kg = 0.250 kg

Weight of onion = 5 kg 300 g = 5 kg + 300 g

$\qquad\qquad\qquad$ = 5 kg + $\frac{300}{1000}$ kg

$\qquad\qquad\qquad$ = 5 kg + 0.300 kg = 5.300 kg

Weight of palak = 500 g = $\frac{500}{1000}$ kg = 0.500 kg

Weight of tomatoes = 2 kg 600 g = 2 kg + 600 g

$\qquad\qquad\qquad$ = 2 kg + $\frac{600}{1000}$ kg $\qquad$ [$\therefore$ 1 g = $\frac{1}{100}$ kg]

$\qquad\qquad\qquad$ = 2 kg + 0.600 kg = 2.600 kg

$\therefore$ Total weight of his purchases in kilograms = Weight of potatoes + Weight of dhania +

Weight of onion + Weight of palak + Weight of tomatoes

$\qquad$ = 1.200 kg + 0.250 kg + 5.300 kg + 0.500 kg + 2.600 kg

$\qquad$ = 9.850 kg

Hence, the total weight is 9.850 kg.

III. Long Answer Type Questions

1. **Write each of the following as decimals:**

   (i) Seventh-tenths $\qquad$ **(ii) Two-tens and nine-tenths**

   (iii) Fourteen point six $\qquad$ **(iv) One hundred and two ones**

   (v) Six hundred point eight.

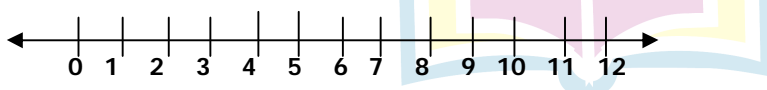   (i) 0.7 $\qquad$ (ii) 20.9 $\qquad$ (iii) 14.6 $\qquad$ (iv) 102.0 $\qquad$ (v) 600.8

2. **Between which two whole numbers on the number line are the given number lie?**

   Which of these whole numbers is nearer the number?

   ```
   ◄──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──►
      0  1  2  3  4  5  6  7  8  9 10 11 12
   ```

   (i) 0.8 $\qquad$ **(ii) 5.1** $\qquad$ **(iii) 2.6** $\qquad$ **(iv) 6.4** $\qquad$ **(v) 9.1** $\qquad$ **(vi) 4.9**

   (i) $\qquad$ It lies between 0 and 1, and it's nearer to 1.

   (ii) $\qquad$ It lies between 5 and 6 and it's nearer to 5.

(iii)   It lies between 2 an d3, and it's nearer to 3.

(iv)   It lies between 6 and 7, and it's nearer to 6.

(v)   It lies between 9 and 10, and it's nearer to 9.

(vi)   It lies between 4 and 5, and it's near to 5.

3. Write each of the following as decimals.

(i) $20 + 9 + \frac{4}{10} + \frac{1}{100}$ **(ii) $137 + \frac{5}{100}$**   **(iii) $\frac{7}{10} + \frac{6}{100} + \frac{4}{1000}$**   **(iv) $23 + \frac{2}{10} +$**

$\frac{6}{1000}$ **(v) $700 + 20 + 5 + \frac{9}{100}$.**

(i) $20 + 9 + \frac{4}{10} + \frac{1}{100} = 29 + \frac{4}{10} + \frac{1}{100}$

$$= 29 + 4 \times \frac{1}{10} + \frac{1 \times 1}{100} = 29.41$$

(ii). $137 + \frac{5}{100} = 137 + 5 \times \frac{1}{100} = 137.05$

(iii). $\frac{7}{10} + \frac{6}{100} + \frac{4}{1000} = 7 \times \frac{1}{10} + 6 \times \frac{1}{100} + 4 \times \frac{1}{1000} = 0.764$

(iv) $23 + \frac{2}{10} + \frac{6}{1000} = 23 \times 2 \times \frac{1}{10} \times 6 \times \frac{1}{1000} = 23.206$

(v) $700 + 20 + 5 + \frac{9}{100} = 725 + \frac{9}{100} = 725 + 9 \times \frac{1}{100} = 725.09$

4.   Write as fraction in lowest terms.

(i) 0.60   (ii) 0.05   (iii) 0.75   (iv) 0.18   (v) 0.066

(i) $0.60 = \frac{6}{100} = \frac{3}{50}$

(ii) $0.05 = \frac{5}{100} = \frac{1}{20}$

(iii) $0.75 = \frac{75}{100} = \frac{3}{4}$

(iv) $0.18 = \frac{18}{100} = \frac{9}{50}$

(v) $0.066 = \frac{66}{1000} = \frac{33}{500}$

5. Convert:

(i) 6952 g to kg   (ii) 5009 paise to ₹

(iii) 1699 m to km   (iv) 9 m 8 cm to m

(i)   We know that 1000 g= 1 kg

Hence, 1 g = $\frac{1}{1000}$kg

Similarly, 6952 g = $\frac{6952}{1000}$ kg = 6.952 kg.

(ii)   We know that 100 paise = 1 rupee

Hence, 1 paise = $\frac{1}{100}$ rupee

Similarly, 5009 paise = $\frac{5009}{100}$ rupee = ₹50.09.

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(iii)   We know that 1000 m = 1 km.

Hence, 1 m = $\frac{1}{100}$ km

Similarly, 1699 m = $\frac{1699}{1000}$ km = 1.699 km.

(iv)   We know that 100 cm = 1 m

Hence, 1 cm = $\frac{1}{100}$ m

So, 9 m 8 cm = 900 cm + 8 cm = 908 cm

Hence, 908 cm = $\frac{908}{100}$ m = 9.08 m.

6. Find the sum in each of the following:

   (i)   0.007 + 8.5 + 30.08   (ii) 15 + 0.632 + 13.8

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

   (v)   280.69 + 25.2 + 38

(i)   0.007 + 8.5 + 30.08

Converting into like decimals, we have

```
 00.007
 08.500
+30.080
───────
 38.587
```

Thus, sum is 38.587.

(ii)   15 + 0.632 + 13.8

Converting into like decimals, we have

```
 15.000
 00.632
+13.800
───────
 29.432
```

Thus, sum is 29.432.

(iii)   27.076 + 0.55 + 0.004

Converting into like decimals, we have

```
 27.076
  0.550
 +0.004
───────
 27.630
```

Thus, sum is 27.630.

(iv)   25.65 + 9.005 + 3.7

Converting into like decimals, we have

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

Thus, sum is 38.355.

(v)   280.69 + 25.2 + 38

Converting into like decimals, we have

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

Thus, sum is 343.89.

7. **Find the value of:**

   (i)   9.756 – 6.28   **(ii) 21.05 – 15.27**   **(iii) 18.5 – 6.79**

   (iv) 11.6 – 9.847   **(v) 29.44 – 16.8**

   (i) 9.756 – 6.28

   Converting into like decimals and subtracting, we have

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

   Thus, 9.756 – 6.28 = 3.476.

   (ii)   21.05 – 15.27

   Converting into like decimals and subtracting, we have

$$
\begin{array}{r}
21.05 \\
-15.27 \\
\hline
5.78 \\
\hline
\end{array}
$$

   Thus, 21.05 – 15.27 = 5.78.

   (iii)   18.5 – 6.79

   Converting into like decimals and subtracting, we have

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18.50

-6.79

_____

11.71

Thus, 18.5 – 6.79 = 11.71.

(iv)   11.6 – 9.847

Converting into like decimals and subtracting, we have

11.600

-9.847

_____

1.753

Thus, 11.6 – 9.847 = 1.753.

(v)   29.44 – 16.8

Converting into like decimals and subtracting, we have

29.44

-16.80

_____

12.64

Thus, 29.44 – 16.8 = 12.64.

8. Subtract:

(i). ₹ 18.25 from ₹ 20.75   (ii) 202.54 m from 250 m

(iii) ₹ 5.36 from ₹ 8.40   (iv) 2.051 km from 5.206 km

(v). 0.314 kg from 2.107 kg.

(i)   Here, they are like decimals, thus

20.75

-18.25

_____

2.50

So, ₹ 20.75 - ₹ 18.25 = ₹ 2.50

(ii)   202.54 m from 250 m

Converting them into like decimals, we have

250.00

-202.54

_____

47.46

Thus, 250 m – 202.54 m = 47.46 m.

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(iii)   ₹ 5.36 from ₹ 8.40

Here, they are like decimals, thus

$$\begin{array}{r} 8.40 \\ -5.36 \\ \hline 3.04 \\ \hline \end{array}$$

So, ₹ 8.40 - ₹ 5.36 = ₹ 3.04.

(iv)   2.051 km from 5.206 km

Here, they are like decimals, thus

$$\begin{array}{r} 5.206 \\ -2.051 \\ \hline 3.155 \\ \hline \end{array}$$

So, 5.206 km – 2.051 km = 3.155 km.

(v)   0.314 kg from 2.107 kg

Here, they are like decimals, thus

$$\begin{array}{r} 2.107 \\ -0.314 \\ \hline 1.793 \\ \hline \end{array}$$

So, 2.107 kg – 0.314 kg = 1.793 kg.

9. **Alok purchased 1 kg 200 g potatoes, 250 g dhania, 5 kg 300 g onion, 500 g palak and 2 kg 600 g tomatoes. Find the total weight of his purchases in kilograms.**

Weight of potatoes purchased = 1 kg 200 g = 1.200 kg

Weight of dhania purchased = 250 g = $\frac{250}{1000}$ kg = 0.250 kg

Weight of onion purchased = 5 kg 300 g = 5.300 kg

Weight of tomatoes purchased = 2 kg 600 g = 2.600 kg

Weight of palak purchased = 500 g = $\frac{500}{1000}$ g= 0.500 kg

Total weight = 1.200 kg + 0.250 kg + 5.300 kg + 2.600 kg + 0.500 kg

i.e.,

$$\begin{array}{r} 1.200 \\ 0.250 \\ 5.300 \\ 2.600 \\ +0.500 \\ \hline 9.850 \\ \hline \end{array}$$

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Thus, total weight = 9.850 kg.

10. **Vineeta bought a book for ₹ 18.90, a pen for ₹ 8.50 and some papers for ₹ 5.05. She gave fifty rupee to the shopkeeper. How much balance did she get back?**

Price of book = ₹ 18.90

Price of pen = ₹ 8.50

Price of papers = ₹5.05

Total money spend = ₹ 18.90 + ₹ 8.50 + ₹ 5.05

i.e.,
$$\begin{array}{r} 18.90 \\ 8.50 \\ +5.05 \\ \hline 32.45 \\ \hline \end{array}$$

Total money spend = ₹ 32.45

Money given to shopkeeper = ₹ 50

So, money returned = ₹ 50 - ₹ 32.45

i.e.,
$$\begin{array}{r} 50.00 \\ -32.45 \\ \hline 17.55 \\ \hline \end{array}$$

Thus, money she get back is ₹ 17.55.

I. High Order Thinking Skills (HOTS)

1. **Which one is greater? 1 m 40 cm + 60 cm or 2.6 m**

Given, 1 m 40 cm + 60 cm = 1 m + 40 cm + 60 cm

= 1 m + 100 m

We know that, 1 cm = $\frac{1}{100}$ m

∴ 1 m 40 cm + 60 cm = 1 m + $\frac{100}{100}$ m

= 1 m + 1 m = 2.0 m

On comparing 2.0 m and 2.6 m.

We have, $2.0 = 2 + \frac{0}{10}$ and $2.6 = 2 + \frac{6}{10}$

Here, whole part of both numbers are same $i.e.$, 2.

Now, tenths part of $2 = \frac{0}{10}$ and tenths part of $2.6 = \frac{6}{10}$ $\therefore \frac{6}{10} > \frac{0}{10}$

Hence, 2.6 is greater than 2.

II. High Order Thinking Skills (HOTS)

1. **Write the largest four digit decimal number less than 1 using the digits 1, 5, 3 and 8 Once.**

   The largest four digit decimal number less than 1 using the digits 1, 5, 3 and 8 once is 0.8531.

2. **Tanuj walked 8.62 km on Monday, 7.05 km on Tuesday and some distance on Wednesday. If he walked 21.01 km in the three days, how much distance did he walk on Wednesday?**

   Tanuj walked on Monday = 8.62 km

   Tanuj walked on Tuesday = 7.05 km

   Distance he walked on both Monday and Tuesday = 8.62 km + 7.05 km

   = 15.67 km

   Total distance he walked on Monday, Tuesday and Wednesday = 21.01 km

   Total distance he walked on Monday and Tuesday = 15.67 km

   $\therefore$ Distance he walked on Wednesday = 21.01 km

   = -15.67 km

   _____

   5.34 km

   _____

   So, Tanuj walked 5.34 km on Wednesday.

3. **Find the difference between 81.242 and 28.353 and add it to the sum of 625.428 and 39.999.**

   Difference between 81.242 and 28.353

   81.242

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$$-28.353$$

$$52.889$$

Sum of 625.428 and 39.999

$$625.428$$
$$+ \ 39.999$$
$$665.427$$

Sum of the difference between 81.242 and 28.353 and the sum of 625.428 and

39.999 = 52.889 + 665.427 = 718.316

Value Based Question

1. **(i) Convert $15\frac{17}{40}$ into a decimal fraction.**

   (ii). Write $40 + 6\ \frac{7}{10} + \frac{9}{100}$ in the decimal fraction.

   (i) $15\ \frac{17}{40} = \frac{15 \times 40 + 17}{40} = \frac{617}{40}$

   Then

$$
\begin{array}{r}
15.425 \\
40)\ 617.000 \\
-\ 40 \\
\hline
217 \\
-200 \\
\hline
170 \\
-160 \\
\hline
100 \\
-80 \\
\hline
200 \\
-200 \\
\hline
\times \times \times \\
\end{array}
$$

   Hence, $15\frac{17}{40} = 15.425$

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(ii) $40 + 6 + \dfrac{7}{10} + \dfrac{9}{100} = 40 + 6 + 0.7 + 0.09$

$= 46 + 0.70 + 0.09$

$= 46.00 + 0.70 + 0.09$

$= 46.79$

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