

CLASS NOTES-ANSWERS

EXERCISE 2.5

- 1. Which is greater?
 - (i) 0.5 or 0.05
- (ii) 0.7 or 0.5
- (iii) 7 or 0.7

- (iv) 1.37 or 1.49
- (v) 2.03 or 2.30

And Kanjirappi

(vi) 0.8 or 0.88.

Answer:

(i) 0.5 or 0.05

$$\begin{array}{c|c}
5 \\
\hline
10
\end{array}
\qquad
\begin{array}{c|c}
5 \\
\hline
100
\end{array}$$

$$\begin{array}{c|c}
5 \times 10 \\
\hline
10 \times 10
\end{array}
\qquad
\begin{array}{c|c}
5 \\
\hline
100
\end{array}$$

 $\frac{50}{100} \quad > \quad \frac{5}{100}$

0.5 is greater.

(ii) 0.7 or 0.5

$$\frac{7}{10}$$
 $\frac{5}{10}$

$$\frac{7}{10} \quad \boxed{>} \quad \frac{5}{10}$$

0.7 is greater.

(iii) 7 or 0.7

$$7 \qquad \qquad \frac{7}{10}$$

$$7 > \frac{7}{10}$$

7 is greater.

(iv) 1.37 or 1.49

1.49 is greater.

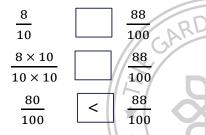
(v) 2.03 or 2.30

$$\begin{array}{c|c}
203 \\
\hline
100
\end{array}
\qquad
\begin{array}{c|c}
230 \\
\hline
100
\end{array}$$

$$\begin{array}{c|c}
230 \\
\hline
100
\end{array}$$

2.30 is greater.

(vi) 0.8 or 0.88



0.88 is greater.

- 2. Express as rupees using decimals:
 - (i) 7 paise
- (ii) 7 rupees 7 paise
- (iii) 77 rupees 77 paise

- (iv) 50 paise
- (v) 235 paise

Answer:

1 paise =
$$\frac{1}{100}$$
 rupees

7 paise =
$$\frac{7}{100}$$
 rupees = 0.07 rupees

(ii) 7 rupees 7 paise = 7 rupee +
$$\frac{7}{100}$$
 rupees = 7 + 0.07



(iii) 77 rupees 77 paise = 77 rupees +
$$\frac{77}{100}$$
 rupees = 77 rupees + 0.77 rupees = 77. 77 rupees

(iv) 50 paise =
$$\frac{50}{100}$$
 rupees = 0.50 rupees

(v) 235 paise =
$$\frac{235}{100}$$
 rupees = 2.35 rupees

- 3. (i) Express 5 cm in metre and kilometre
 - (ii) Express 35 mm in cm, m and km N

Answer:

(i)
$$1 \text{ m} = 100 \text{ cm}$$

(i) 1 m = 100 cm
1 cm =
$$\frac{1}{100}$$
 m

$$\therefore 5 \text{ cm} = \frac{5}{100} \text{ m} = 0.05 \text{ m}$$

$$1 \text{ km} = 1000 \text{ m} = (1000 \times 100) \text{ cm} = 1,00,000 \text{ cm}$$

$$1 \text{ cm} = \frac{1}{1,00,000} \text{ km}$$

$$\therefore$$
 5 cm = $\frac{5}{1,00,000}$ km = 0.00005 km

(ii)
$$1 cm = 10 mm$$

1 mm =
$$\frac{1}{10}$$
 cm

$$\therefore$$
 35 mm = $\frac{35}{10}$ cm = 3.5 cm

$$1 \text{ m} = 100 \text{ cm} = (100 \times 10) \text{ mm} = 1000 \text{ mm}$$

$$1 \text{ mm} = \frac{1}{1000} \text{ m}$$

$$\therefore$$
 35 mm = $\frac{35}{1000}$ m = 0.035 m

$$1 \text{ km} = 1,00,000 \text{ cm} = (1,00,000 \times 10) \text{ mm} = 10,00,000 \text{ mm}$$

$$1 \text{ mm} = \frac{1}{10,00,000} \text{ km}$$

$$\therefore$$
 35 mm = $\frac{35}{10,00,000}$ km = 0.00035 km

- 4. Express in kg:
- (i) 200 g (ii) 3470 g (iii) 4 kg 8 g

Answer:

(i) 200 g =
$$\frac{200}{1000}$$
 kg = 0.200 kg

(ii) 3470 g =
$$\frac{3470}{1000}$$
 kg = 3.470 kg

(iii) 4 kg 8 g = 4 kg +
$$\frac{8}{1000}$$
 kg = 4 + 0.008 = 4.008 kg

- 5. Write the following decimal numbers in the expanded form:
 - (i) 20.03
- (ii) 2.03 (iii) 200.03
- (iv) 2.034

Answer:

(i)
$$20.03 = 2 \times 10 + 0 \times 1 + 0 \times \frac{1}{10} + 3 \times \frac{1}{100}$$

(ii)
$$2.03 = 2 \times 1 + 0 \times \frac{1}{10} + 3 \times \frac{1}{100}$$

(iii)
$$200.03 = 2 \times 100 + 0 \times 10 + 0 \times 1 + 0 \times \frac{1}{10} + 3 \times \frac{1}{100}$$

(iv)
$$2.034 = 2 \times 1 + 0 \times \frac{1}{10} + 3 \times \frac{1}{100} + 4 \times \frac{1}{1000}$$

- 6. Write the place value of 2 in the following decimal numbers:
 - (i) 2.56
- (ii) 21.37
- (iii) 10.25
- (iv) 9.42



(v) 63.352

Answer:

(i) 2.56 - 2 is at ones place.

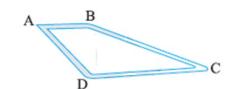
(ii) 21.37 - 2 is at tens place.

(iii) 10.25 - 2 is at tenths place.

(iv) 9.42 - 2 is at hundredths place.

(v) 63.352 - 2 is at thousandths place.

7. Dinesh went from place A to place B and from there to place C. A is 7.5 km from B and B is 12.7 km from C. Ayub went from place A to place D and from there to place C. D is 9.3 km from A and C is 11.8 km from D. Who travelled more and by how much?



Answer:

Given:

Distance travelled by Dinesh from A to B = 7.5 km

And from place B to place C = 12.7 km

∴ Total distance travelled by Dinesh = AB + BC

= 7.5 km + 12.7 km

= 20.2 km

Grade 7

Chapter 2: Fractions and Decimals, Class 11

Distance travelled by Ayub from place A to place D = 9.3 km And from place D to place C = 11.8 km

On comparing the total distance travelled by Dinesh and Ayub, we get

- 21.1 km > 20.2 km
- i.e., Distance travelled by Ayub > Distance travelled by Dinesh
- : Ayub covered more distance than Dinesh by,

8. Shyama bought 5 kg 300 g apples and 3 kg 250 g mangoes. Sarala bought 4 kg 800 g oranges and 4 kg 150 g bananas. Who bought more fruits?

Answer:

Weight of apples bought by Shyama = 5 kg 300 g Weight of mangoes bought by Shyama = 3 kg 250 g

Also,

Weight of oranges bought by Sarala = 4 kg 800 g



Weight of oranges bought by Sarala = 4 kg 150 g

∴ Total weight of fruits bought by Sarala = 4 kg 800 g + 4 kg 150 g

$$= 8 kg 950 g$$

On comparing the quantity of fruits, we get 8 kg 950 g > 8 kg 550 g Thus, Sarala bought more fruits.

9. How much less is 28 km than 42.6 km?

Answer: Difference = 42.6 - 28 = 14.6 km

Thus, 14.6 km less is 28 km than 42.6 km.

