



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

(vi) 0.8 or 0.88.

Answer:

(i) 0.5 or 0.05

$$\frac{5}{10} \quad \square \quad \frac{5}{100}$$

$$\frac{5 \times 10}{10 \times 10} \quad \square \quad \frac{5}{100}$$

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

0.5 is greater.

(ii) 0.7 or 0.5

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

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

0.7 is greater.

(iii) 7 or 0.7

$$7 \quad \square \quad \frac{7}{10}$$

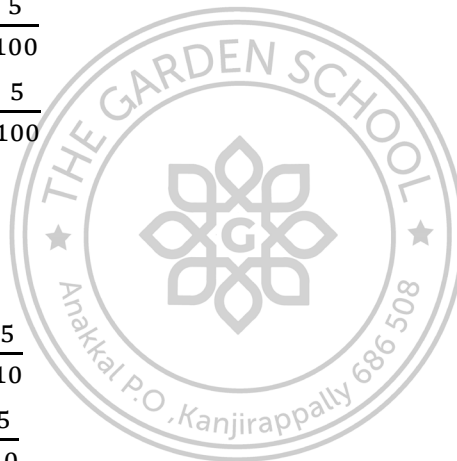
$$7 \quad \square \quad \frac{7}{10}$$

7 is greater.

(iv) 1.37 or 1.49

$$\frac{137}{100} \quad \square \quad \frac{149}{100}$$

$$\frac{137}{100} \quad \square \quad \frac{149}{100}$$





1.49 is greater.

(v) 2.03 or 2.30

$$\frac{203}{100} \quad \square \quad \frac{230}{100}$$

$$\frac{203}{100} \quad \square < \quad \frac{230}{100}$$

2.30 is greater.

(vi) 0.8 or 0.88

$$\frac{8}{10} \quad \square \quad \frac{88}{100}$$

$$\frac{8 \times 10}{10 \times 10} \quad \square \quad \frac{88}{100}$$

$$\frac{80}{100} \quad \square < \quad \frac{88}{100}$$

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:

(i) 1 rupee = 100 paise

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

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

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

$$= 7 + 0.07$$

$$= 7.07 \text{ rupees}$$

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

$$= 77 \text{ rupees} + 0.77 \text{ rupees}$$



$$= 77.77 \text{ rupees}$$

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

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

3. (i) Express 5 cm in metre and kilometre

(ii) Express 35 mm in cm, m and km

Answer:

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

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

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

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

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

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

$$(ii) 1 \text{ cm} = 10 \text{ mm}$$

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

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

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

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

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

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

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

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



4. Express in kg:

(i) 200 g

(ii) 3470 g

(iii) 4 kg 8 g

Answer:

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

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

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

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.

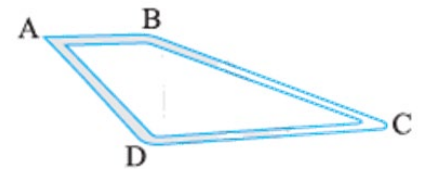
(iii) 10.25 - 2 is at tenths place.

(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

$$\begin{aligned}\therefore \text{Total distance travelled by Dinesh} &= AB + BC \\ &= 7.5 \text{ km} + 12.7 \text{ km} \\ &= 20.2 \text{ km}\end{aligned}$$

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

And from place D to place C = 11.8 km

$$\begin{aligned}\therefore \text{Total distance travelled by Ayub} &= AD + DC \\ &= 9.3 \text{ km} + 11.8 \text{ km} \\ &= 21.1 \text{ km}\end{aligned}$$

On comparing the total distance travelled by Dinesh and Ayub, we get
 $21.1 \text{ km} > 20.2 \text{ km}$



i.e., Distance travelled by Ayub > Distance travelled by Dinesh

∴ Ayub covered more distance than Dinesh by,

$$\begin{aligned}21.1 - 20.2 &= 0.9 \text{ km} \\ &= 0.9 \times 1000 \text{ m} \\ &= 900 \text{ m}\end{aligned}$$

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

$$\begin{aligned}\therefore \text{Total weight of fruits bought by Shyama} &= 5 \text{ kg } 300 \text{ g} + 3 \text{ kg } 250 \text{ g} \\ &= 8 \text{ kg } 550 \text{ g}\end{aligned}$$

Also,

Weight of oranges bought by Sarala = 4 kg 800 g

Weight of bananas bought by Sarala = 4 kg 150 g

$$\begin{aligned}\therefore \text{Total weight of fruits bought by Sarala} &= 4 \text{ kg } 800 \text{ g} + 4 \text{ kg } 150 \text{ g} \\ &= 8 \text{ kg } 950 \text{ g}\end{aligned}$$

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.

