Mathematics

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(Chapter - 2) (Fractions and Decimals)
(Class - VII)

Exercise 2.5

Question 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 1:

- (i) 0.5 > 0.05
- (ii) 0.7 > 0.5
- (iii) 7 > 0.7

- (iv) 1.37 < 1.49
- (v) 2.03 < 2.30
- (vi) 0.8 < 0.88

Question 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 2:

- : 100 paise = ₹1
- $\therefore 1 \text{ paisa} = \frac{1}{100}$
- (i) 7 paise = $\frac{7}{100}$ = $\frac{7}{00}$ = $\frac{7}{100}$
- (ii) 7 rupees 7 paise = $₹7 + ₹\frac{7}{100} = ₹7 + ₹0.07 = ₹7.07$
- (iii) 77 rupees 77 paise = $₹77 + ₹ \frac{77}{100} = ₹77 + ₹0.77 = ₹77.77$
- (iv) 50 paise = $\frac{50}{100}$ = $\frac{50}{100}$ = $\frac{50}{100}$
- (v) 235 paise = $\frac{235}{100}$ = $\frac{235}{100}$ = $\frac{235}{100}$

Question 3:

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

Answer 3:

- (i) Express 5 cm in meter and kilometer.
 - ∴ 100 cm = 1 meter
 - $\therefore 1 \text{ cm} = \frac{1}{100} \text{ meter}$
 - \Rightarrow 5 cm = $\frac{5}{100}$ = 0.05 meter.

Now,

- : 1000 meters = 1 kilometers
- \therefore 1 meter = $\frac{1}{1000}$ kilometer
 - \Rightarrow 0.05 meter = $\frac{0.05}{1000}$ = 0.00005 kilometer

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- (ii) Express 35 mm in cm, m and km.
 - : 10 mm = 1 cm
 - \therefore 1 mm = $\frac{1}{10}$ cm
 - \Rightarrow 35 mm = $\frac{35}{10}$ = 3.5 cm
 - Now, : 100 cm = 1 meter
 - $\therefore 1 \text{ cm} = \frac{1}{100} \text{ meter}$
 - \Rightarrow 3.5 cm = $\frac{3.5}{100}$ = 0.035 meter

Again,

- : 1000 meters = 1 kilometers
- \therefore 1 meter = $\frac{1}{1000}$ kilometer
- \Rightarrow 0.035 meter = $\frac{0.035}{1000}$ = 0.000035 kilometer

Question 4:

Express in kg.:

- (i) 200 g
- (ii) 3470 g
- (iii) 4 kg 8 g

Answer 4:

Let us consider, 1000 g = 1 kg

- \Rightarrow 1 g = $\frac{1}{1000}$ kg
- (i) $200 \text{ g} = \left(200 \times \frac{1}{1000}\right) \text{ kg} = 0.2 \text{ kg}$
- (ii) $3470 \text{ g} = \left(3470 \times \frac{1}{1000}\right) \text{ kg} = 3.470 \text{ kg}$
- (iii) $4 \text{ kg } 8 \text{ g} = 4 \text{ kg} + \left(8 \times \frac{1}{1000}\right) \text{ kg} = 4 \text{ kg} + 0.008 \text{ kg} = 4.008 \text{ kg}$

Question 5:

Write the following decimal numbers in the expanded form:

- (i) 20.03
- (ii) 2.03
- (iii) 200.03
- (iv) 2.034

Answer 5:

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

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Question 6:

Write the place value of 2 in the following decimal numbers:

- (i) 2.56
- (ii) 21.37

(iii) 10.25

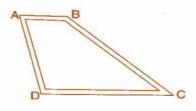
- (iv) 9.42
- (v) 63.352

Answer 6:

- (i) Place value of 2 in $2.56 = 2 \times 1 = 2$ ones
- (ii) Place value of 2 in $21.37 = 2 \times 10 = 2$ tens
- (iii) Place value of 2 in $10.25 = 2 \times \frac{1}{10} = 2$ tenths
- (iv) Place value of 2 in 9.42 = $2 \times \frac{1}{100}$ = 2 hundredth
- (v) Place value of 2 in $63.352 = 2 \times \frac{1}{1000} = 2$ thousandth

Question 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?



11.8 km

127 km

Answer 7:

Distance travelled by Dinesh when he went from place A to place B = 7.5 km and from place B to C = 12.7 km.

Total distance covered by Dinesh = AB + BC

$$= 7.5 + 12.7 = 20.2 \text{ km}$$

Total distance covered by Ayub = AD + DC

$$= 9.3 + 11.8 = 21.1 \text{ km}$$

On comparing the total distance of Ayub and Dinesh,

9.3

km

Therefore, Ayub covered more distance by 21.1 - 20.2 = 0.9 km = 900 m

Question 8:

Shyam 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 8:

Total weight of fruits bought by Shyam = 5 kg 300 g + 3 kg 250 g = 8 kg 550 gTotal weight of fruits bought by Sarala = 4 kg 800 g + 4 kg 150 g = 8 kg 950 g

On comparing the quantity of fruits, 8 kg 550 g < 8 kg 950 gTherefore, Sarala bought more fruits.

Question 9:

How much less is 28 km than 42.6 km?

Answer 9:

We have to find the difference of 42.6 km and 28 km.

Difference = 42.6 - 28.0 = 14.6 km

Therefore 14.6 km less is 28 km than 42.6 km.

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