



SpeedLabs

MATHS

CBSE 7th

TEEVRA EDUTECH PVT. LTD.

Fractions and Decimals

Exercise-2.5

Q.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

Sol: (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) $0.8 < 0.88$

Q.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

Sol: There are 100 paise in 1 rupee. Therefore, if we want to convert paise into rupees, then we have to divide paise by 100.

(i) 7 paise = $\text{Rs } \frac{7}{100} = \text{Rs } 0.07$

(ii) 7 Rs 7 paise = $\text{Rs } 7 + \text{Rs } \frac{7}{100} = \text{Rs } 7.07$

(iii) 77 Rs 77 paise = $\text{Rs } 77 + \text{Rs } \frac{77}{100} = \text{Rs } 77.77$

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

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

Q.3 (i) Express 5 cm in metre and kilometer (ii) Express 35 mm in cm, m and km

Sol: (i) 5 cm

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

$$5 \text{ cm} = \frac{5}{100000} \text{ km} = 0.00005 \text{ km}$$

(ii) 35 mm

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

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

$$35 \text{ mm} = \frac{5}{100000} \text{ km} = 0.000035 \text{ km}$$

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

Sol: (i) $200 \text{ g} = \frac{200}{1000} \text{ kg} = 0.2 \text{ kg}$

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

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

Q.5 Write the following decimal numbers in the expanded form:

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

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

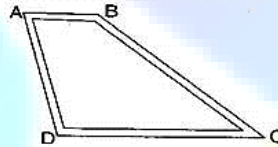
Q.6 Write the place value of 2 in the following decimal numbers:

(i) 2.56 (ii) 21.37 (iii) 10.25 (iv) 9.42 (v) 63.352

Sol: (i) 2.56 - Ones (ii) 21.37 - Tens (iii) 10.25 - Tenths

(iv) 9.42 - Hundredths (v) 63.352 - Thousandths

Q.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?



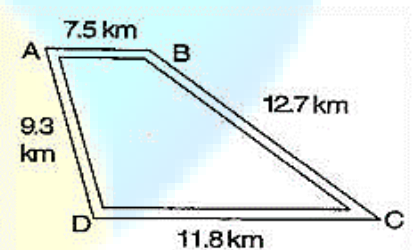
Sol: Distance travelled by Dinesh when he went from place A to place B = 7.5 km and from place B to C = 12.7 km.

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, $21.1 \text{ km} > 20.2 \text{ km}$

Therefore, Ayub covered more distance by $21.1 - 20.2 = 0.9 \text{ km} = 900 \text{ m}$



Q.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?

Sol: Total weight of fruits bought by Shyam = $5 \text{ kg } 300 \text{ g} + 3 \text{ kg } 250 \text{ g} = 8 \text{ kg } 550 \text{ g}$

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

On comparing the quantity of fruits, $8 \text{ kg } 550 \text{ g} < 8 \text{ kg } 950 \text{ g}$

Therefore, Sarala bought more fruits.

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

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

$$42.6 - 28.0 = 14.6 \text{ km}$$

Therefore 14.6 km less is 28 km than 42.6 km.

