Board – CBSE	Class – 7th	Topic – Fractions and Decimals 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 mm = $\frac{5}{1000000}$ km = 0.000035 km

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

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

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

(iii) 4 kg 8 g =4kg + $\frac{8}{1000}$kg = 4.008 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)$2.034 = = 2 \times 1 + 0 \times \frac{1}{10} + 3 \times \frac{1}{100} + 4 \times \frac{1}{1000}$

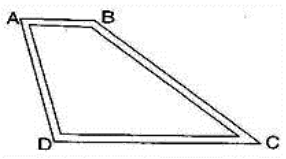
Q.6 Write the place value of 2 in the following decimal numbers:

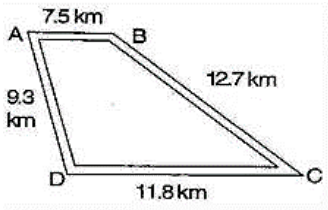
(i)2.56 (ii)21.37 (iii)10.25 (iv)9.42 (v) 63.352

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 traveled more and by how much?





Sol: Distance traveled 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 km

Total distance covered by Ayub = AD + DC = 9.3 + 11.8 = 21.1 km

Comparing the total distance of Ayub and Dinesh, 21.1 km > 20.2 km

Therefore, Ayub covered more distance by 21.1 – 20.2 = 0.9 km = 900 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 kg 300 g + 3 kg 250 g = 8 kg 550 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, 8 kg 550 g < 8 kg 950 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 between 42.6 km and 28 km.

42.6 – 28.0 = 14.6 km

Therefore 14.6 km less is 28 km than 42.6 km.