

Ch - 02

Mathematics

Class - VII "Solution of" Ex - 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.

Sol. (i) 0.5 or 0.05

Here, in 0.5 tenth place is greater
than tenth place of 0.05
as 5 > 0,

\therefore 0.5 > 0.05 Ans.

(ii) 0.7 or 0.5

Here, in 0.7 tenth place is greater
than tenth place of 0.5.

7 > 5

\therefore 0.7 > 0.5 Ans.

(iii) 7 or 0.7

Here, 7 is greater in ones place
than 0 in ones place of 0.7

\therefore 7 > 0.7 Ans.

(iv) 1.37 or 1.49

Here, ones place in both the number is equal and tenth place in 1.49 is greater than tenth place in 1.37, i.e., $4 > 3$.

\therefore 1.49 $>$ 1.37 Ans.

Q. 2. Express as rupees using decimals.

(i) 7 paise (ii) 7 rupees 7 paise

(iii) 77 rupees 77 paise

Sol. (i) 7 paise,

To convert paise into rupees divide by 100 to amount of paise.

$$\therefore 7 \text{ p} = \frac{7}{100} = \text{₹ } \underline{0.07}.$$

(ii) 7 rupees 7 paise

$$= \text{₹}(7 + 0.07)$$

$$= \text{₹ } \underline{7.07}$$

(iii) 77 rupees 77 paise

$$= \text{₹}(77 + 0.77)$$

$$= \text{₹ } \underline{77.77}$$

Q.3. (i) Express 5 cm in metre and kilometer.

Sol. $\underline{1 \text{ cm}} = \frac{1}{100} \text{ m} = \underline{0.01 \text{ m}}$.

$$\therefore \underline{5 \text{ cm}} = 5 \times 0.01 \text{ m} \\ = \underline{0.05 \text{ m}}$$

Now, $\underline{1 \text{ m}} = \frac{1}{1000} \text{ km} = 0.001 \text{ km}$.

$$\therefore \underline{0.05 \text{ m}} = 0.05 \times 0.001 \text{ km} \\ = \underline{0.00005 \text{ km}}$$

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

Sol. $35 \text{ mm} = 3.5 \text{ cm} = 0.035 \text{ m} \\ = \underline{0.000035 \text{ km}}$.

Q.4. Express in kg:

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

Sol. Since, $1 \text{ kg} = \underline{1000 \text{ g}}$ or $\underline{1 \text{ g} = \frac{1}{1000} \text{ kg}}$.

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

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

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

Q.5. In expanded form:

(i) 20.03 (ii) 2.03 (iii) 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) $2.034 = 2 \times 1 + 0 \times \frac{1}{10} + 3 \times \frac{1}{100} + 4 \times \frac{1}{1000}$

Q.6. Find place value of '2'.

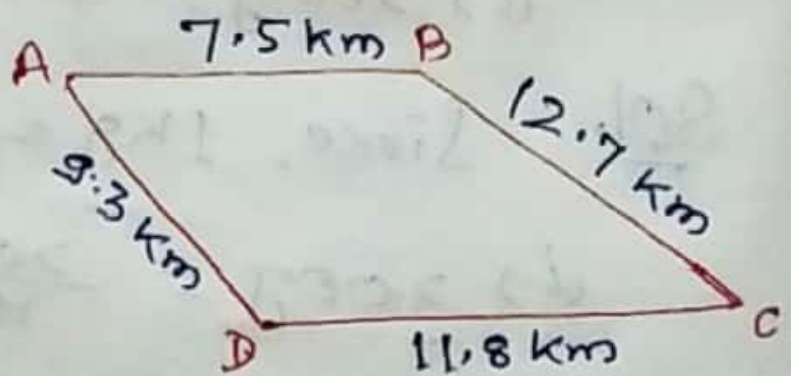
(i) 2.56 (ii) 63.352 (iii) 10.25

Sol. (i) 2.56, Place value of 2 is 2 ones.

(ii) 63.352, Place value of 2 is 2 thousandths.

(iii) 10.25, Place value of 2 is 2 tenths.

Q.7. Sol.



Total distance covered by Dinesh from place A to C

$= (7.5 + 12.7) \text{ km} = \underline{20.2 \text{ km}}$

And, total distance covered by Ayub

from A to c

$$= (9.3 + 11.8) \text{ km}$$

$$= \underline{21.1 \text{ km.}}$$

Now, Difference = $(21.1 - 20.2) \text{ km}$

$$= 0.9 \text{ km or}$$

$$= \underline{900 \text{ m.}}$$

Hence, Ayub travelled more by 0.9 km.

Q.8. Sol.

Total fruits bought by Shyama

$$= \underline{5 \text{ kg } 300 \text{ g} + 3 \text{ kg } 250 \text{ g}}$$

$$= 8.550 \text{ kg}$$

Total fruits bought by Sarala

$$= \underline{4 \text{ kg } 800 \text{ g} + 4 \text{ kg } 150 \text{ g}}$$

$$= 8.950 \text{ kg}$$

Here, $8.950 > 8.550$

Hence, Sarala bought more fruits.

Q.9. Sol. Difference between 42.6 and 28

$$= 42.6 - 28 = \underline{14.6 \text{ km}}$$

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