



UNIFIED COUNCIL

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NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION

Solutions for sample questions

Class : 4

Mathematics

1. (C) Given,

$$\star + \text{C} = \frac{7}{6} \text{ and}$$

$$\star + \frac{1}{2} = \frac{2}{3}$$

$$\therefore \star = \frac{2}{3} - \frac{1}{2}$$

$$= \frac{2 \times 2}{3 \times 2} - \frac{1 \times 3}{2 \times 3}$$

$$= \frac{4}{6} - \frac{3}{6} = \frac{1}{6}$$

$$\text{Since, } \star + \text{C} = \frac{7}{6},$$

$$\text{we get } \frac{1}{6} + \text{C} = \frac{7}{6}$$

$$\therefore \text{C} = \frac{7}{6} - \frac{1}{6} = \frac{6}{6} = 1$$

2. (B) CI - IC = 101 - 99 = 2

$$\text{LX} - \text{XL} = 60 - 40 = 20$$

CL - LC is not possible because I, X, or C can be subtracted but not V or L.

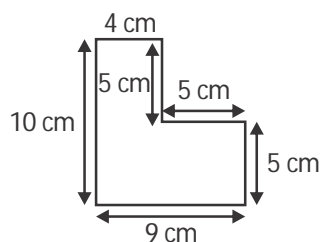
CX - XC = 110 - 90 = 20 is correct of all the given statements.

3. (D) 1 m 5 cm + 1 m + 20 cm

$$= 105 \text{ cm} + 100 \text{ cm} + 20 \text{ cm} = 225 \text{ cm}$$

$$= 2 \text{ m } 25 \text{ cm}$$

4. (B)



$$\begin{aligned} \text{Perimeter} &= (10 + 4 + 5 + 5 + 5 + 9) \text{ cm} \\ &= 38 \text{ cm} \end{aligned}$$

$$\begin{aligned} \text{(or) Perimeter} &= 2(10 + 9) \text{ cm} \\ &= 38 \text{ cm} \end{aligned}$$

5. (B) 2 kg = 1 kg + 500 g + 500 g (1)

$$= 1 \text{ kg} + 500 \text{ g} + 250 \text{ g} + 250 \text{ g} \dots (2)$$

$$\begin{aligned} &= 1 \text{ kg} + 500 \text{ g} + 250 \text{ g} + 100 \text{ g} \\ &\quad + 100 \text{ g} + 50 \text{ g} \dots (3) \end{aligned}$$

General Science

6. (C) Venus fly trap closes its leaves to trap insects.

7. (B) 'X' is water in the liquid state and Y marbles in solid state.

8. (D) Q is moon. It is a satellite. It reflects light from the sun.

9. (B) Silk is obtained from silkworm.

10. (B) X is dentine.