

NUMERICAL PROBLEMS

- Q.1 Find the area of a rectangular plate having length (21.3 ± 0.2) cm and width (9.80 ± 0.10) cm:

SOLUTION:

Area of rectangular plate = Length $\times$ width.

$$A = (21.3 \pm 0.2) \times (9.80 \pm 0.10)$$

$$A = (21.3 \times 9.80) \pm (21.3 \times 0.10) \pm (0.20 \times 9.80) \pm (0.2 \times 0.10).$$

$$= 208.76 \pm 2.13 \pm 1.96$$

$$= 208.78 \pm 4.09$$

$$= (208.8 \pm 4.1) \text{ cm}^2.$$

$$\boxed{A = (209 \pm 4) \text{ cm}^2} \text{ Ans.}$$

- Q.2 Calculate (a) the circumference of a circle of radius 3.5cm and (b) area of a circle of radius 4.65cm:

SOLUTION:

- (a) Circumference of circle

$$S = 2\pi r$$

$$S = 2 \times 3.141 \times 3.5$$

$$\boxed{S = 21.99 \text{ cm}} \text{ Ans.}$$

- (b) Area of circle

$$A = \pi r^2$$

$$= 3.141 \times (4.65)^2$$

$$= 3.141 \times 21.6225$$

$$\boxed{A = 67.89 \text{ cm}^2} \text{ Ans.}$$

- Q.4 Find the dimension of 'C' in the equation $S = Ct^2$:

SOLUTION:

The dimension of 'S' is L.

The dimension of t is T

$$\text{Then The dimension of } C = \frac{S}{t^2} = \frac{L}{T^2}$$

$$\boxed{= L T^{-2}} \text{ Ans.}$$

- Q.5 Estimate the number of liters of gasoline used by cars in Pakistan each year (consider cars in Pakistan = 500000):

DATA:

$$\text{No. of cars} = 500000 = 5 \times 10^5$$

$$\text{Average distance/year} = 16000 \text{ km}$$

$$\text{Gasoline consumption} = 6 \text{ km/litres}$$

$$\text{No. of litre of gasoline used/year} = ?$$

SOLUTION:

$$\text{Total distance covered by all cars/year} = 5 \times 10^5 \times 16000 \\ = 8 \times 10^9 \text{ km}$$

$$\text{Gasoline consumption} = 6 \text{ km/litres}$$

$$\text{Gasoline consumption} = 1/6 \text{ litres}$$

$$\text{Gasoline consumption} = 8 \times 10^9 \text{ km} = \frac{1}{6} \times 8 \times 10^9$$

$$\boxed{\text{Gasoline consumption} = 1033 \times 10^8 \text{ litres.}}$$

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M Carnoy



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