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3. If all the unemployed persons are given a monthly stipend of Rs.200 each, then what is the total amount distributed as stipend in one year, if the number of unemployed persons do not change throughout the year?

- A. Rs. 156560000 B. Rs. 15525000 C. Rs. 15700000 D. Rs. 15600000 E. Rs. 15178000

4. 40% of females and 20% of males who are shown as working in 'other' sectors are working in banks. The number of bank employees in the city is

- A. 1200 B. 1550 C. 3400 D. 4100 E. 4700

5. What is the ratio of the total number of Mechanics to that of Animators in the city?

- A. 197 : 220 B. 197 : 211 C. 77 : 83 D. 35 : 47 E. 97 : 211

Correct Answers:

1	2	3	4	5
A	B	D	E	A

Explanations:

1. The total number of persons = 98000
 Male: Female = 1000 : 960
 ⇒ Out of 1960, Males = 1000
 ⇒ Out of 98000, Males = $\frac{98000}{1960} \times 1000 = 50000$
 Number of Females = 98000 – 50000 = 48000
 The number of male Actors = 10% of 50000 = 5000
 The number of female Actors = 5% of 48000 = 2400
 So, the difference = 5000 – 2400 = 2600
 Hence, option (A) is correct.

2. The total number of persons = 98000
 Male: Female = 1000 : 960
 ⇒ Out of 1960, Males = 1000
 ⇒ Out of 98000, Males = $\frac{98000}{1960} \times 1000 = 50000$
 Females = 98000 – 50000 = 48000
 Unemployed males = $\frac{5}{100} \times 50000 = 2500$
 Unemployed females = $\frac{8.33}{100} \times 48000 = 4000$
 The required percentage = $\frac{2500}{6500} \times 100 = 38.5\%$
 Hence, option (B) is correct.

3. The total number of persons = 98000

Male: Female = 1000 : 960

⇒ Out of 1960, Males = 1000

⇒ Out of 98000, Males = $\frac{98000}{1960} \times 1000 = 50000$

Females = 98000 – 50000 = 48000

The total number of unemployed persons

$$= \frac{8.33}{100} \times 48000 + \frac{5}{100} \times 50000 = 4000 + 2500 = 6500$$

Each one is given a monthly stipend of Rs 200

⇒ Monthly stipend = 6500 × 200 = 1300000

⇒ Yearly = 1300000 × 12 = 15600000

Hence, option (D) is correct.

4. The total number of persons = 98000

Male: Female = 1000 : 960

⇒ Out of 1960, Males = 1000

⇒ Out of 98000, Males = $\frac{98000}{1960} \times 1000 = 50000$

Females = 98000 – 50000 = 48000

$$\text{Male bank employee} = \left(\frac{15}{100} \times 50000 \right) \times \frac{20}{100} = 7500 \times \frac{20}{100} = 1500$$

$$\text{Female bank employee} = \left(\frac{16.66}{100} \times 48000 \right) \times \frac{40}{100} = 8000 \times \frac{40}{100} = 3200$$

So, The total no of bank employee = 3200 + 1500 = 4700

Hence, option (E) is correct.

5.

$$\begin{aligned} \text{Total number of Mechanics} &= \frac{15}{100} \times 48000 + \frac{25}{100} \times 50000 \\ &= 7200 + 12500 = 19700. \end{aligned}$$

$$\begin{aligned} \text{Total number of Animators} &= \frac{25}{100} \times 48000 + \frac{20}{100} \times 50000 \\ &= 12000 + 10000 = 22000 \end{aligned}$$

$$\text{So, required ratio} = \frac{197}{220}$$

Hence, option (A) is correct.



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