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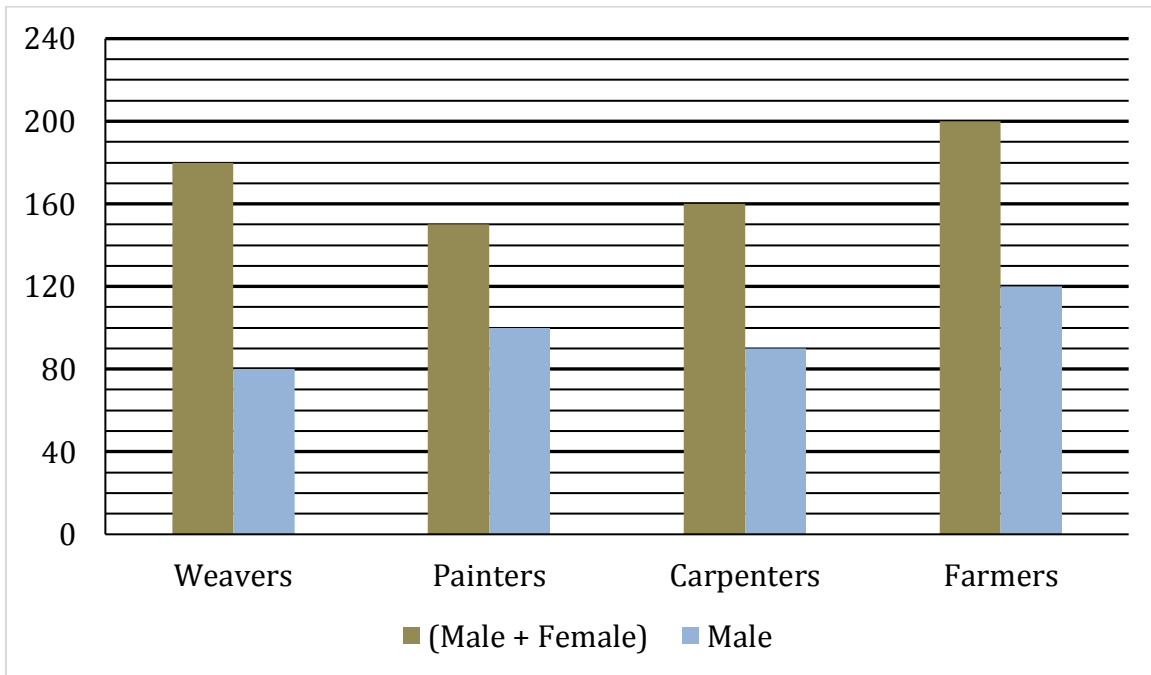
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Direction (1-5): - Bar graph given below shows total persons (male + females) who play four different rolls in a drama and number of males who play these rolls respectively. Study the data carefully and answer the following questions.

Note: One person plays only one roll not more than one.




Q1. Find the ratio between total number of persons (male + females) who play roll of Weavers, Painters and Farmers together to the total number of females who play role of Painter and Carpenter together?

- (a) None of the given options
- (b) 12: 53
- (c) 53 : 12
- (d) 23 : 8
- (e) 51: 14

Q2. Total number of males who play roll of Weaver and Carpenter together is how much less than total no. of persons (male + female) who play roll of Carpenter and Farmer together?

- (a) 90
- (b) 190
- (c) 180
- (d) None of the given options
- (e) 290



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Q3. Total number of males who play roll of Painter and Farmer together is what percent of the total females who play same rolls?

- (a) $169\frac{3}{13}\%$
- (b) None of the given options
- (c) $196\frac{2}{13}\%$
- (d) 168%
- (e) 196%

Q4. Out of total males and females who play roll of Carpenter, 50% and $28\frac{4}{7}\%$ respectively were awarded for their performances. Find total persons (males + females) who were not awarded for their performances for the same roll is what percent of total persons (male + female) who play this roll?

- (a) 40%
- (b) 49.75%
- (c) 69.375%
- (d) 59.375%
- (e) 79.5%

Q5. Find the average number of females who play all the rolls together.

- (a) 80
- (b) 75
- (c) 65
- (d) 85
- (e) 90

Q6. A vessel contains 60 lit of pure honey. If m lit of pure honey is replaced with n lit of water then ratio of honey to water becomes 10: 1 and if 2m lit of pure honey were replaced by n lit of water, then ratio of honey to water becomes 8: 1. Find the value of 'm + n'?

- (a) 10
- (b) 12
- (c) 15
- (d) 30
- (e) 20

Q7. The price of a car is Rs. 3,25,000. It was insured to 85% of its price. The car was damaged completely in an accident and the insurance company paid 90% of the insurance. What was the difference between the price of the car and the amount received?

- (a) Rs. 32,500
- (b) Rs. 48,750
- (c) Rs. 76,375
- (d) Rs. 81,250
- (e) Rs. 72,375

Q8. Nitin borrowed some money at the rate of 6% p.a. for the first three years, 9% p.a. for the next five years and 13% p.a. for the period beyond eight years. If the total interest paid by him at the end of eleven years is Rs. 8160, how much money did he borrow?

- (a) Rs. 8000
- (b) Rs. 10,000
- (c) Rs. 12,000
- (d) Rs. 10,500
- (e) Rs. 14,000

Q9. In how many different ways can the letters of the word 'JUDGE' be arranged in such a way that the vowels always come together?

- (a) 48
- (b) 120
- (c) 124
- (d) 160
- (e) 240

Q10. A box contains 2 white balls, 3 black balls and 4 red balls. In how many ways can 3 balls be drawn from the box, if at least one black ball is to be included in the draw?

- (a) 32
- (b) 48
- (c) 64
- (d) 96
- (e) 128

Directions (11-15): In these questions, two equations numbered I and II are given. You have to solve both the equations and give answer

- (a) $x \geq y$
- (b) $x \leq y$
- (c) $x < y$
- (d) $x > y$
- (e) $x = y$ or Relationship between x and y cannot be established

Q11. I. $x^2 - 208 = 233$

II. $y^2 + 47 - 371 = 0$

Q12. I. $x^2 - 11x + 24 = 0$

II. $2y^2 - 9y + 9 = 0$

Q13. I. $x^3 \times 13 = x^2 \times 247$

II. $y^{1/3} \times 14 = 294 \div y^{2/3}$

Q14. I. $\frac{12 \times 4}{x^{4/7}} - \frac{3 \times 4}{x^{4/7}} = x^{\frac{10}{7}}$

II. $y^3 + 783 = 999$

Q15. I. $\sqrt{500x} - \sqrt{402} = 0$

II. $\sqrt{360y} - (200)^{1/2} = 0$

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Solutions

S1. Ans. (c)

$$\begin{aligned}\text{Sol. Required ratio} &= \frac{(180+150+200)}{(50+70)} \\ &= \frac{530}{120} = 53:12\end{aligned}$$

S2. Ans. (b)

$$\text{Sol. Required difference} = (160 + 200) - (80 + 90) = 190$$

S3. Ans. (a)

$$\begin{aligned}\text{Sol. Required percentage} &= \frac{(100+120)}{(50+80)} \times 100 \\ &= \frac{2200}{13} \% \\ &= 169\frac{3}{13} \%\end{aligned}$$

S4. Ans. (d)

$$\text{Sol. Total males who were not awarded for the roll of Carpenter} = 90 - \frac{50}{100} \times 90 = 45$$

$$\text{Total females who were not awarded for roll of Carpenter} = 70 - \frac{200}{700} \times 70 = 50$$

$$\therefore \text{Required percentage} = \frac{95}{160} \times 100 = 59.375\%$$

S5. Ans. (a)

$$\begin{aligned}\text{Sol. Required average} &= \frac{1}{4}(100 + 50 + 70 + 80) \\ &= 300/4 = 75\end{aligned}$$

S6. Ans. (c)

$$\text{Sol. According to first condition, Ratio of honey and water} = \frac{60-m}{n} = \frac{10}{1}$$

$$\Rightarrow m + 10n = 60 \quad \dots(1)$$

$$\text{According to second condition, Ratio of honey and water} = \frac{60-2m}{n} = \frac{8}{1}$$

$$\Rightarrow m + 4n = 30 \quad \dots(2)$$

Solving eq. (1) and (2),

$$m = 10, n = 5$$

$$\therefore m + n = 15$$

S7. Ans.(c)

Sol. Amount received

$$= 3,25,000 \times \frac{85}{100} \times \frac{90}{100}$$

$$= \text{Rs. } 2,48,625$$

$$\therefore \text{Required difference} = 76,375$$

S8. Ans.(a)**Sol.** Let money borrowed by Nitin was Rs. P

$$\therefore P \times 6 \times 3 + P \times 9 \times 5 + P \times 13 \times 3 = 8160 \times 100$$

$$\Rightarrow P = \text{Rs. } 8000$$

S9. Ans.(a)**Sol.** Total letters = 5

Vowels = 2 (U, E)

$$\therefore \text{Total ways} = 4! \times 2!$$

$$= 48$$

S10. Ans.(c)**Sol.** 2W, 3B and 4R

$$\text{Total ways} = {}^9C_3 - {}^6C_3$$

$$= 84 - 20$$

$$= 64$$

S11. Ans.(e)**Sol. I.** $x^2 - 208 = 233$

$$\Rightarrow x^2 = 441$$

$$\Rightarrow x = 21, -21$$

II. $y^2 + 47 - 371 = 0$

$$\Rightarrow y^2 = 324$$

$$\Rightarrow y = 18, -18$$

No relation between x and y

**S12. Ans.(a)****Sol. I.** $x^2 - 11x + 24 = 0$

$$\Rightarrow (x-8)(x-3) = 0$$

$$\Rightarrow x = 8, 3$$

II. $2y^2 - 9y + 9 = 0$

$$\Rightarrow 2y^2 - 6y - 3y + 9 = 0$$

$$\Rightarrow (y-3)(2y-3) = 0$$

$$\Rightarrow y = 3, \frac{3}{2}$$

$$x \geq y$$

S13. Ans.(c)**Sol. I.** $x^3 \times 13 = x^2 \times 247$

$$\Rightarrow 13x^2(x-19) = 0$$

$$\Rightarrow x = 0, 19$$

II. $y^{\frac{1}{3}} \times 14 = 294 \div y^{\frac{2}{3}}$

$$\Rightarrow y = 21$$

$$x < y$$

S14. Ans.(b)

$$\text{Sol. I. } \frac{48}{x^{\frac{4}{7}}} - \frac{12}{x^{\frac{4}{7}}} = x^{\frac{10}{7}}$$

$$\Rightarrow x^2 = 36$$

$$\Rightarrow x = 6, -6$$

$$\text{II. } y^3 = 216$$

$$\Rightarrow y = 6$$

$$x \leq y$$

S15. Ans.(d)

$$\text{Sol. I. } \sqrt{500x} - \sqrt{402} = 0$$

$$\Rightarrow 500x = 402$$

$$\Rightarrow x = \frac{201}{250} \approx 0.8$$

$$\text{II. } \sqrt{360y} - \sqrt{200} = 0$$

$$\Rightarrow y = \frac{200}{360}$$

$$\Rightarrow y = \frac{5}{9} \approx 0.56$$

$$x > y$$



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