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Directions (1-5): The given table shows the number of classes taken by four different guest tutors (X, Y, Z and A) on different days in a week and honorarium paid to them for each class.

Tutors	Number of classes taken each on Monday, Tuesday and Wednesday	Number of class taken each on Thursday & Friday	Honorarium paid for each class (Rs.)
X	3	0	4000
Y	4	—	5000
Z	2	2	3000
A	1	4	6000

Note:

- (i) Saturday and Sunday are Holiday.
- (ii) '—' is missing value
- (iii) Each class is of one hour.

Q1. Find the ratio of number of classes taken by A to the number of classes taken by X in a week ?

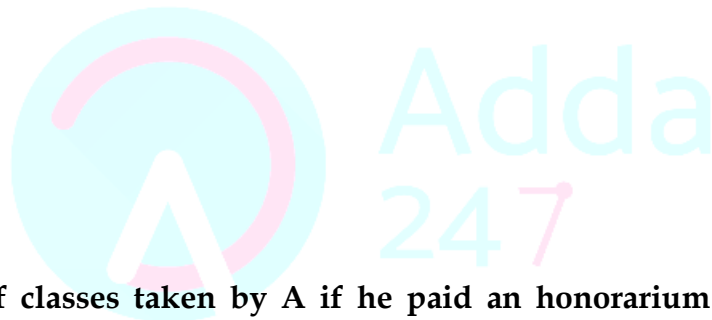
- (a) 11 : 9
- (b) 9 : 7
- (c) 9 : 11
- (d) 10 : 9
- (e) None of the above


Q2. Find the number of classes taken by A if he paid an honorarium of Rs. 2.28 lakh for the completion of his course.

- (a) None of the above
- (b) 38
- (c) 42
- (d) 48
- (e) 32

Q3. Find the difference between the honorarium paid to Z, if he teaches for 2 weeks and the honorarium paid to X, if he teaches for a week?

- (a) Rs. 36,000
- (b) Rs. 42,000
- (c) Rs. 24,000
- (d) None of the above
- (e) Rs. 32,000



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Q4. If honorarium paid to Y for the completion of his course is Rs. 4.5 lakh and Y takes 5 weeks for completion of his course. Then find the average of the honorarium paid to Y and Z in a week is approximately what percent of the honorarium paid to X in 2 weeks?

- (a) $143\frac{2}{3}\%$
- (b) $182\frac{1}{3}\%$
- (c) $123\frac{2}{7}\%$
- (d) $166\frac{1}{3}\%$
- (e) $166\frac{2}{3}\%$

Q5. If Y takes 2 classes on Thursday and Friday in a particular week then honorarium paid to X is what percent of that paid to Y in that week ?

- (a) 37%
- (b) 45%
- (c) 42%
- (d) 40%
- (e) 50%

Directions (6-10): In each question two equations numbered (I) and (II) are given. Student should solve both the equations and mark appropriate answer.

Q6. I. $2x^2 + 28 = 15x$

II. $-17y + 36 = -2y^2$

- (a) $x \geq y$
- (b) no relation can be established between x and y.
- (c) $x > y$
- (d) $x < y$
- (e) $x \leq y$

Q7. I. $x^2 + 12x = -32$

II. $\frac{y^2}{18} + \frac{y}{2} = -1$

- (a) $x \leq y$
- (b) $x > y$
- (c) $x \geq y$
- (d) $x < y$
- (e) no relation can be established between x and y.

Q8. I. $x^2 - 11x + 24 = 0$

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

- (a) no relation can be established between x and y
- (b) $x \geq y$
- (c) $x \leq y$
- (d) $x > y$
- (e) $x < y$

Q9. I. $\frac{12}{\sqrt{x}} - \frac{23}{\sqrt{x}} = 5\sqrt{x}$

II. $\frac{\sqrt{y}}{12} - \frac{5\sqrt{y}}{12} = \frac{1}{\sqrt{y}}$

- (a) $x \geq y$
- (b) $x < y$
- (c) no relation can be established between x and y
- (d) $x > y$
- (e) $x \leq y$

Q10. I. $2x^2 = x + 15$

II. $2y^2 = 3y + 20$

- (a) $x \leq y$
- (b) $x > y$
- (c) $x \geq y$
- (d) no relation can be established between x and y
- (e) $x < y$

Q11. If ratio of investment of A, B and C are in the ratio 3 : 5 : 8 and the time of investment of A, B and C are $\frac{100}{3}\%$, 80% and 25% respectively of their investment, and profit of A is 4800 then what will be the profit of C.

- (a) 25,600
- (b) 15,600
- (c) 24,800
- (d) 22,500
- (e) 26,700




Q12. A and B can do a piece of work in 25 days and 30 days respectively. They start the work together but after some days A leaves the job. B alone does the remaining work in 8 days. Find after how many days does A leave the job?

- (a) 12 days
- (b) 8 days
- (c) 10 days
- (d) 16 days
- (e) None of these

Q13. A trader marked his goods at 20% above the cost price. He sold half of the stock at marked price. One quarter at a discount of 20% on marked price and rest at a discount of 40% on marked price, then his gain is

- (a) 2.5 %
- (b) 2.2 %
- (c) 2 %
- (d) 1.9 %
- (e) None of these

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Q14. Satish invested 16000 Rs. in simple interest for 2 years on certain rate and gets an interest of 4800 Rs, if he invested total amount (Principle + Interest) in a scheme, which offered compound interest of 5% more interest rate as earlier rate. Then find total interest obtained by Satish after 2 years?

- (a) 9252 Rs.
- (b) 9225 Rs.
- (c) 9512 Rs.
- (d) 925 Rs.
- (e) 9152 Rs.

Q15. The sum of the ages of father and son is 50 years. Eight years ago, the product of their ages was two time the father's age at that time, then the present ages (in years) of the father and son respectively are

- (a) 39,6
- (b) 35,10
- (c) 36,9
- (d) 40,10
- (e) None of these

Solutions

S1. Ans.(a)

Sol. Required ratio = $\frac{1 \times 3 + 4 \times 2}{3 \times 3 + 2 \times 0} = \frac{11}{9} = 11 : 9$

S2. Ans.(b)

Sol. Required no. of classes = $\frac{11 \times 2.28 \times 1,00,000}{66000} = 38$

S3. Ans.(c)

Sol. Required difference = $10 \times 3000 \times 2 - 9 \times 4000 \times 1 = \text{Rs. } 24000$

S4. Ans.(e)

Sol. Let number of classes taken by Y on Thursday and Friday each be x.

ATQ,

$$(4 \times 3 + 2x) \times 5 \times 5000 = 4,50,000$$

$$\Rightarrow x = 3$$

$$\text{Required \%} = \frac{(18 \times 5000 + 10 \times 3000)}{18 \times 4000} \times 100 = 166\frac{2}{3}\%$$

S5. Ans.(b)

Sol. Honorarium paid to Y = Rs. $16 \times 5000 = \text{Rs. } 80,000$

Honorarium paid to X (in that week) = Rs. $9 \times 4000 = \text{Rs. } 36,000$

$$\text{Required \%} = \frac{36000}{80000} \times 100 = 45\%$$

S6. Ans.(e)

Sol. I. $2x^2 - 7x - 8x + 28 = 0$

$x(2x - 7) - 4(2x - 7) = 0$

$x = 4, \frac{7}{2}$

II. $2y^2 - 8y - 9y + 36 = 0$

$2y(y - 4) - 9(y - 4) = 0$

$y = 4, \frac{9}{2}$

$x \leq y$

S7. Ans.(e)

Sol. I. $x^2 + 12x = -32$

$x^2 + 8x + 4x + 32 = 0$

$x = -4, -8$

II. $\frac{y^2}{18} + \frac{y}{2} = -1$

$y^2 + 3y + 6y + 18 = 0$

$y = -3, -6$

No relation between x & y

S8. Ans.(b)

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

$\Rightarrow x^2 - 8x - 3x + 24 = 0$

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

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

$\therefore x = 3 \text{ or } 8$

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

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

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

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

$\therefore y = \frac{3}{2} \text{ or } 3$

Clearly $x \geq y$

S9. Ans.(d)

Sol. I. $12 - 23 = 5\sqrt{x} \times \sqrt{x}$

$\Rightarrow -11 = 5x$

$\Rightarrow x = \frac{-11}{5}$

II. $\frac{\sqrt{y} - 5\sqrt{y}}{12} = \frac{1}{\sqrt{y}}$

$\Rightarrow -4\sqrt{y} \times \sqrt{y} = 12$

$\Rightarrow -4y = 12$

$\Rightarrow y = -3$

$x > y$

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S10. Ans.(d)

Sol. $2x^2 - x - 15 = 0$

$$\left(x + \frac{5}{2}\right)(x - 3) = 0$$

$$x = \frac{-5}{2}, 3$$

$$2y^2 - 3y - 20 = 0$$

$$\left(y + \frac{5}{2}\right)(y - 4) = 0$$

$$y = \frac{-5}{2}, 4$$

No relation

S11. Ans.(a)

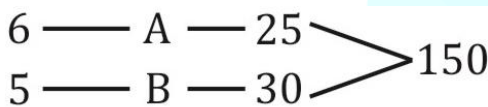
Sol. Ratio of profit = $3 \times 3 \times \frac{1}{3} : 5 \times 5 \times \frac{4}{5} : 8 \times 8 \times \frac{1}{4}$

$$= 3 : 20 : 16$$

$$\text{Profit of C} = \frac{4800}{3} \times 16 = 25600$$

S12. Ans.(c)

Sol. Efficiency Days Total work



Let after d days A left the job

$$(6 + 5) \times d + 5 \times 8 = 150$$

$$11d = 110$$

$$d = 10 \text{ days}$$

S13. Ans.(c)

Sol. Let total number of goods = 100

With CP of each good = Rs. 1

Total CP = Rs. 100

$$\text{SP for half of the goods} = \frac{120}{100} \times 50 = \text{Rs. } 60$$

$$\text{SP for } \frac{1}{4} \text{th of the goods} = \frac{80}{100} \times \frac{120}{100} \times 25 = \text{Rs. } 24$$

$$\text{SP for } \frac{1}{4} \text{th of the goods} = \frac{60}{100} \times \frac{120}{100} \times 25 = \text{Rs. } 18$$

Total SP = Rs. 102

$$\text{Percent profit} = \frac{2}{100} \times 100 = 2\%$$



S14. Ans.(e)

$$\text{Sol. Rate} = \frac{4800 \times 100}{16000 \times 2}$$

$$R = 15\%$$

$$\text{New rate} = 15 + 5 = 20\%$$

$$2 \text{ year CI on } 20\% = 20 + 20 + \frac{20 \times 20}{100}$$

$$= 44\%$$

Interest obtained Satish

$$= (16000 + 4800) \times \frac{44}{100} = 9152 \text{ Rs.}$$

S15. Ans.(d)

Sol. Let present age of father(F) be x years and age of son(S) is $(50 - x)$ years

$$F: S = x: (50 - x)$$

$$\text{Eight years ago, } x - 8: 42 - x$$

$$\text{From question} \rightarrow (x - 8)(42 - x) = 2(x - 8)$$

$$x = 40, \text{ So father's age} = 40, \text{ son} = 10$$



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