

# BOOKS



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**Q1. A milkman has 20 L of pure milk. He sells 5 L of it at profit of 20% and he mixes 5 L water in remaining quantity of milk. If he sells whole quantity of mixture at cost price, then find his percentage profit?**

- (a) 25%
- (b) 20%
- (c) 24%
- (d) 28%
- (e) 30%

**Q2. The sum of the radius and height of a cylinder is 18m. The total surface area of the cylinder is  $792 \text{ m}^2$ , what is the volume of the cylinder ? (in  $\text{m}^3$ )**

- (a) 1848
- (b) 1694
- (c) 1716
- (d) 1724
- (e) 1440

**Q3. In a 90 litre mixture of milk and water, percentage of water is only 30%. The milkman gave 18 litres of this mixture to a customer and then added 18 litres of water to the remaining mixture. What is the percentage of milk in the final mixture ?**

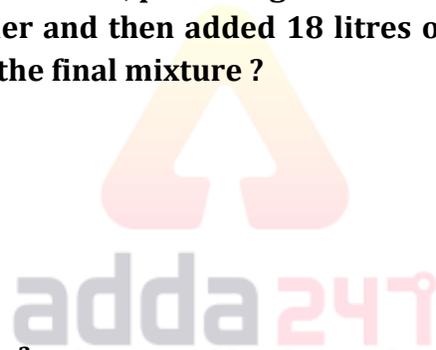
- (a) 64%
- (b) 48%
- (c) 52%
- (d) 68%
- (e) 56%

**Q4. If the area of a circle is  $616 \text{ cm}^2$ , what would be the total surface area of a hemisphere having the same radius as the circle ?**

- (a)  $1848 \text{ cm}^2$
- (b)  $1648 \text{ cm}^2$
- (c)  $2218 \text{ cm}^2$
- (d)  $1808 \text{ cm}^2$
- (e)  $1765 \text{ cm}^2$

**Q5. There are two mixtures of honey and water, the quantity of honey in them being 40% and 75% of the mixture respectively. If 5 gallons of the first are mixed with 8 gallons of the second, what will be the ratio of honey to water in the new mixture ?**

- (a) 11 : 2
- (b) 8 : 5
- (c) 9 : 11
- (d) 2 : 11
- (e) 3 : 22



**Directions (6-10):** In each of these questions, two equations numbered I and II are given. You have to solve both the equation and give answer

- (a) if  $x < y$
- (b) if  $x \leq y$
- (c) if  $x > y$
- (d) if  $x \geq y$
- (e) if  $x = y$  or the relationship cannot be established

**Q6. I.**  $2x^2 + 11x + 15 = 0$

**II.**  $4y^2 + 13y + 9 = 0$

**Q7. I.**  $x^2 - 36x + 324 = 0$

**II.**  $y^2 - 35y + 216 = 0$

**Q8. I.**  $x = (216)^{1/3}$

**II.**  $y^2 = 6$

**Q9. I.**  $2x^2 + 17x + 35 = 0$

**II.**  $3y^2 + 17y + 24 = 0$

**Q10. I.**  $x^2 + 72 = 108$

**II.**  $y^3 + 581 = 365$



**Direction (11-15):** There are total five departments in a company. There are total 90 employees in Finance department which is 25% of total employees in the company.  $\frac{2}{9}$  of the total employees of the company are working in HR department. Employees working in Sales department is 25% more than that in HR department. Ratio between employees working in Security and Housing department is 4 : 5.

**Q11.** Find number of employees working in HR department is what percent more than number of employees working in Security department?

- (a) 250%
- (b) 200%
- (c) 150%
- (d) 100%
- (e) 50%

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**Q12. Find the average number of employees working in Sales, Finance and Housing department?**

- (a) 60
- (b) 70
- (c) 80
- (d) 90
- (e) 100

**Q13. Number of employees in Housing department is how much more than number of employees in Security department?**

- (a) 10
- (b) 20
- (c) 30
- (d) 40
- (e) 50

**Q14. In Security department, 40% are female employees then find total male employees working in Security department?**

- (a) 16
- (b) 40
- (c) 32
- (d) 8
- (e) 24

**Q15. Ratio between total number of male and female employees in HR department is 2 : 3. Find total number of female employees working in HR department?**

- (a) 32
- (b) 48
- (c) 64
- (d) 40
- (e) 56

**Directions (16-20): Find out the wrong number in the following number series.**

**Q16. 14, 29, 41, 63, 65, 131, 133**

- (a) 63
- (b) 131
- (c) 29
- (d) 41
- (e) 133

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**Q17. 2478, 819, 257, 84, 24, 5**

- (a) 257
- (b) 24
- (c) 5
- (d) 819
- (e) 1

**Q18. 4, 6, 12, 30, 90, 315, 1240**

- (a) 315
- (b) 90
- (c) 6
- (d) 12
- (e) 1240

**Q19. 289, 266, 285, 270, 281, 275, 277**

- (a) 266
- (b) 275
- (c) 277
- (d) 281
- (e) 285

**Q20. 7, 13, 49, 295, 2305, 23041**

- (a) 7
- (b) 13
- (c) 49
- (d) 295
- (e) 2305

**Q21. A and B started a business with the investments in the ratio of 5 : 3 respectively. After 6 months from the start of the business, C joined them and the respective ratio between the investments of B and C was 2 : 3. If the annual profit earned by them was Rs. 12,300, what was the difference between B's share and C's share in the profit ?**

- (a) Rs. 900
- (b) Rs. 800
- (c) Rs. 600
- (d) Rs. 400
- (e) Rs. 700

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**Q22. A person bought two tables for Rs. 2200. He sells one at 5% loss and the other at 6% profit and thus on the whole he neither gains nor loses. Find the cost price of each table.**

- (a) Rs. 1500, Rs. 700
- (b) Rs. 2000, Rs. 200
- (c) Rs. 1200, Rs. 1000
- (d) Rs. 1100, Rs. 1100
- (e) Rs. 1150, Rs. 1050

**Q23. The average of the age of Sumit, Krishna and Rishabh is 43 years and the average of the age of Sumit, Rishabh and Rohit is 49 years. If Rohit is 54 years old, what is Krishna's age?**

- (a) 45 years
- (b) 24 years
- (c) 36 years
- (d) Cannot be determined
- (e) None of these

**Q24. Pankaj bought a new house, 2% of the total price of the house will be given to broker as commission. 5% of the price of house is Rs. 2.5 lacs then what is the amount earned by the broker ?**

- (a) Rs. 1,00,000
- (b) Rs. 10,000
- (c) Rs. 5,00,000
- (d) Rs. 15,000
- (e) Rs. 20,500

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**Q25. The difference between compound interest and simple interest on a certain sum at 10% per annum for 3 years is Rs. 124. What is the sum ?**

- (a) Rs. 4000
- (b) Rs. 8000
- (c) Rs. 12400
- (d) Rs. 6200
- (e) Rs. 8400

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