1. Class B has 50% more students than Class A. The number of girls in class A is equal to the number of boys in class B. The percentage of girls is the same in both classes. What percentage of the student group is boys? (TCS)

A) 33.33% B)40% C)25% D) none of these

Hint: - Let the number of girls in class A = x, Let the number of boys in class A = y

Total number of students = x + y, Proportion of girls = x/x+y

Number of boys in class B = x

Total number of students in class B = 1.5(x + y)

(x+y)*100/2.5(x+y) = 40%

Answer B

2. A earns 25% more than B. C earns 25% more than A. A earns 20% more than D. E earns 20% more than A. A, B, C, D, and E earn integer amounts less than Rs. 100. What is the total amount earned by all five of them put together? (Infosys)

A) Rs. 300 B) Rs. 245 C) Rs. 305 D) None of these

Hint: - A = 5/4 * B or B = 4/5 * A

C = 5/4 * A

A = 6/5 * D or D = 5/6 * A

E = 6/5 * A

Take the LCM of 5,4,6 to find the value of A

Answer C

3. Traders A and B buy two goods for Rs. 1000 and Rs. 2000 respectively. Trader A marks his goods up by x%, while Trader B marks his goods up by 2x% and offers a discount of x%. If both make the same non-zero profit, find x. (TCS)

A)25% B)12.5% C)37.5% D) none of these

Hint: - SP of trader A = 1000 (1 + x).

Profit of trader A = 1000 (1 + x) – 1000.

MP of trader B = 2000 (1 + 2x).

SP of trader B = 2000 (1 + 2x) (1 – x).

Profit of trader B = 2000(1 + 2x) (1 – x) – 2000.

Both make the same profit => 1000(1 + x) – 1000 = 2000(1 + 2x) (1 – x) – 2000

Answer A

4. On a certain sum of money, compound interest earned at the end of three years = Rs. 1456. Compound interest at the end of two years is Rs. 880. Compute the principal invested. (TCS)

A) Rs. 2,400 B) Rs. 2,800 C) Rs. 2,000 D) none of these

Hint: - CI Formula

Answer C

5. Ram deposits Rs. P with a bank at r% compound interest and sees it reach Rs.16P in 20 years. If he had invested the same amount at r% simple interest for 20 years, what would be the amount? (Infosys)

A) Between Rs. 2P and 2.5P B) Between Rs. 2.5P and 3P

C) Between 3.5P and 4P D) none of these

Hint: - In order for the money to double, the approximate formula for r = 72/n = 14.4% or more precisely 69.3/n.

The rate of interest should be roughly 14 – 15%

If he had invested this in simple interest,

A = P + P * 20 *(14 to 15 %)/100 = 3.8P to 4P

Answer C

6. A shopkeeper purchased 10 boxes of pencils containing 10 pencils each at Rs. 100 per box and sold each pencil at a profit of 12%. What is the total sale price? (Cognizant)

A) Rs 1100 B) Rs 1120 C) Rs 1200 D) None of these

Hint: - Basic approach of Profit and Loss

Answer B

7. Find compound interest on Rs. 8000 at 15% per annum for 2 years 4 months, compounded annually. (Tech Mahindra)

A) 2109 B) 3109 C) 4109 D) none of these

Hint: - Formula of CI

Answer B

8. At what rate, percent per annum, will a sum of money double in 8 years? (Cognizant)

A) 12.5% B) 13.5% C) 11.5% D) none of these

Hint: - Formula of SI

Answer A

9. A sum of money lent at compound interest for 2 years at 20% per annum would fetch Rs.482 more if the interest was payable half-yearly than if it was payable annually. The sum is. (Accenture)

A) 10000 B) 20000 C) 40000 D) none of these

Hint: - Formula of Amount on CI.

Answer B

10. Salaries of Ravi and Sumit are in the ratio 2:3. If the salary of each is increased by Rs. 4000, the new ratio becomes 40:57. What is Sumit's salary? (Accenture)

A) 38000 B) 46800 C) 36700 D) none of these

Hint: - (2X+4000/3X+4000) = 40/57

Answer A

11. The ratio of the angles of a triangle is 3:4:5. The three angles of a quadrilateral are equal to the three angles of this triangle. What is the sum of the largest angle and the second smallest angle of the quadrilateral? (Infosys)

A) 225 deg B) 210 deg C) 205 deg D) none of these

Hint: - Concept of ratio

Answer A

12. The price of a movie ticket was increased in the ratio 9:10. What is the increase in the revenue (in Rs.) of the cinema hall, if the original fare was Rs 180 and 2200 tickets were sold? (Wipro)

A) 44000 B) 440000 C) 39600 D) none of these

Hint: - Concept of ratio

Answer B

13. The ratio of the first and second-class fares between the two stations is 6, 4 and the number of passengers traveling by first and second-class is 130. If Rs. 2100 is collected as fare, what is the amount collected from first-class passengers? (Wipro)

A) Rs . 250 B) Rs. 200 C) Rs. 100 D) None of these

Hint: - Ratio of the amounts collected from 1st and 2nd class = (6 × 1): (4 × 30) = 1 : 20. ∴ Amount collected from 1st class passengers =(1/21) × 2100 = 100.

Answer C

14. A can contains a mixture of two liquids A and B in the ratio 7: 5. When 9 litres of mixture are drawn off and the can is filled with B, the ratio of A and B becomes 7: 9. How many litres of liquid A was contained by the can initially (Cognizant)

A) 10 B) 20 C) 21 D) none of these

Hint: - (7x – 21/4)/(5x – 15/4) = 7/9

Answer C

15. P can complete the work in 12 days, working 8 hours a day. Q can complete the same work in 8 days, working 10 hours a day. If both p and Q work together, working 8 hours a day, in how many days can they complete the work? (Infosys)

A) 60/11 B) 61/11 C) 71/11 D) none of these

Hint: - P can complete the work in (12 x 8) hrs = 96 hrs, Q can complete the work in (8 x 10) hrs = 80 hrs. Use the LCM method to solve the questions.

Answer A