

1. The length and breadth of a rectangle are increased by 20% and 30%. The area of the resulting rectangle exceeds the area of the original rectangle?

a. 50 % b. 65 % c. 56 % d. 150 %

2. One-fourth of two-fifth of three-tenth of a number is 15 and three-fifth of one-fifth of 45 percentage of another number is 27. What is the difference between the two numbers?

a. 30 b. 20 c. 40 d. 50

3. The total strength of capital Education is 5000. The number of males and females increases by 8% and 16% respectively and strength becomes 5600. What was the number of males at Capital Education?

a. 2500 b. 2000 c. 3000 d. 4000

4. The sum of 15% of a positive number and 20% of the same number is 126. What is one-third of that number?

a. 360 b. 108 c. 120 d. 40

5. The cost of a piece of diamond varies with the square of its weight. A diamond of Rs. 5184 value is cut into 3 pieces whose weights are in the ratio 1: 2: 3. Find the loss involved in the cutting.

a. Rs. 3068 b. Rs. 3088 c. Rs. 3175 d. Rs. 3168

6. A merchant buys an article for Rs. 360 and sells it at a profit of 11.11%. The selling price of the article is:
- a. Rs. 400 b. Rs. 450 c. Rs. 535 d. Rs. 560
7. By selling an article for Rs. 960 a man incurs a loss of 4%; what was the cost price?
- a. Rs. 1000 b. Rs. 1150 c. Rs.1200 d. Rs. 300
8. What profit % is made by selling an article at a certain price, if by selling it at half that price there would be a loss of 12.5%?
- a. 70% b. 60% c. 75% d. 65% e. None of these
9. Ratio of cost price to that of marked price is 3:5 and ratio of loss to that of discount is 1:4 then find the discount % given?
- a. 48 $\frac{1}{3}$ % b. 53 $\frac{1}{3}$ % c. 58 $\frac{1}{3}$ % d. 63 $\frac{1}{3}$ %
10. A girl introduced a boy as the son of' the daughter of the father of her uncle. The boy is girl's
- a. Brother b. Uncle c. Son d. Son in law e. None of these
11. Pointing to a person, a man said to a woman, "His mother is the only daughter of your father." How was the woman related to the person?
- a. Aunt b. Mother c. Wife d. Daughter e. None of these

12. X introduces Y saying, -He is the husband of the granddaughter of the father of my father.” How is Y related to X ?
- a. Brother b. Son c. Nephew d. Brother in law
13. Pointing to a man, a woman said, “His mother is the only daughter of my mother.” How is the woman related to the man?
- a. Mother b. Daughter c. Sister d. Grandmother
14. $4568 \times 534 = \underline{\hspace{2cm}}$.
15. What will come in the place of the question mark '?' in the following question?
 $40\% \text{ of } 750 - ? - 450 \div 9 \times 4 = 40$
16. What will come in the place of the question mark '?' in the following question?
 $(3/4)^3 \times (2/3)^4 \div ? = 1/624$
17. What will come in place of question mark “?”
 $125 + ? + 272 - 391 = 184 - 215 + 169$
18. Simplify $\left(\frac{5}{3} \times 6.5\right) + \left(\frac{9}{2} \div 3\right) - \left(\frac{7}{4} + 1.25\right)$

19.

In a certain code language,

(2 – Marks)

'A + B' means 'A is the mother of B';

'A – B' means 'A is the brother of B';

'A × B' means 'A is the wife of B' and

'A ÷ B' means 'A is the father of B'.

Based on the above, how is 5 related to 3 if ' $5 - 2 \times 4 \div 3$ '?

1. Father's sister
2. Mother's brother
3. Father's brother
4. Mother's sister