



Wednesday, 08 January 2025

1. In what time will ₹ 8,000, at 3% per annum, produce the same interest as ₹ 6,000 does in 5 years at 4% simple interest?

- (A) 5 years
- (B) 6 years
- (C) 3 years
- (D) 4 years

2. A dealer buys an article listed at ₹ 100 and gets successive discounts of 10% and 20%. He spends 10% of the cost price on transportation. At what price should he sell the article to earn a profit of 15%?

- (A) ₹ 92.0
- (B) ₹ 91.08
- (C) ₹ 90.80
- (D) ₹ 91.20

3. A conical iron piece having diameter 28 cm and height 30 cm is totally immersed into the water of a cylindrical vessel, resulting in the rise of water level by 6.4 cm. The diameter, in cm of the vessel is:

- (A) 35
- (B) 32
- (C) 3.5
- (D) $\frac{35}{2}$

4. If $m - 5n = 2$, then what is the value of $(m^3 - 125n^3 - 30mn)$?

- (A) 8
- (B) 7
- (C) 9
- (D) 6

5. Given that $x^3 + y^3 = 72$ and $xy = 8$ with $x > y$. Then the value of $x - y$ is:

- (A) 4
- (B) -4
- (C) 2
- (D) -2

Distribution of fruits consumption	
Servings of fruits per day	Number of students
0	15
1	10
2	15
3	10
4	8
5	5
6	3
7	3
8	3

6. How many of these students ate fewer than two servings per day?

- (A) 15
- (B) 40
- (C) 25
- (D) None of these

7. What percent of these students ate six or more servings per day?

- (A) 12.5%
- (B) 13%
- (C) 10%
- (D) 11%

8. How many of these students ate more than two servings but less than six servings per day?

- (A) 26
- (B) 18
- (C) 23
- (D) 38

9. What percent of these students ate more than two servings per day and less than seven servings per day?

- (A) 36.11
- (B) 38
- (C) 47
- (D) 32

Directions (6-10): Study the following table carefully and answer the questions based on it.

The following table shows the distribution of fruit consumption in a school among students.

10. What is the number of students who eat more than three servings per day?

- (A) 20
- (B) 22
- (C) 35
- (D) 72

1-{A} - 2-{B} - 3-{A} - 4-{A} - 5-{C} - 6-{C} - 7-{A} - 8-{C} - 9-{A} - 10-{B}