



Tuesday, 07 January 2025

1. Find the square root of $\frac{(0.064 - 0.008)(0.16 - 0.04)}{(0.16 + 0.08 + 0.04)(0.4 + 0.2)^3}$.
- (A) $\frac{1}{3}$ (B) $\frac{2}{3}$ (C) 3 (D) $\frac{3}{2}$
- (A) $4\frac{2}{3}$ (B) $5\frac{2}{3}$ (C) $4\frac{1}{3}$ (D) $5\frac{1}{3}$

2. If $x + \frac{1}{x} = 2$, then what is the value of $x^{12} - \frac{1}{x^{12}}$?

- (A) 2 (B) 0 (C) 4 (D) -4

3. If A and B are in the ratio 4 : 5 and the difference of their squares is 81, what is the value of A?

- (A) 36 (B) 15 (C) 45 (D) 12

4. A, B and C can complete a work in 6 days. If A can work twice faster than B and thrice faster than C, then the number of days in which C alone can complete the work is:

- (A) 11 Days (B) 33 Days (C) 44 Days (D) 22 Days

5. 4 men and 6 women can complete a work in 8 days, 2 men and 9 women can also complete in 8 days. The number of days in which 18 women can complete the work is:

6. Raj and Prem walk in opposite direction at the rate of 3 km and 2 km per hour respectively. How far will they be from each other 2 hours?

- (A) 8 km (B) 6 km (C) 2 km (D) 10 km

7. Eighteen years ago, the ratio of A's age to B's age was 8 : 13. Their present ratio is 5 :

7. What is the present age of A? (A) 70 years (B) 50 years (C) 40 years (D) 60 years

8. To attract more visitors, Zoo authority announces 20% discount on every ticket and of Zoo increased by 28%. Find the percentage of increase in the number of visitors.

- (A) 40% (B) 50% (C) 60% (D) No change

9. A dealer sold a bicycle at a profit of 10%. Had he brought the bicycle at 10% less price and sold it at a price ₹ 60 more, he would have gained 25%. The cost price of the bicycle was:

- (A) ₹ 2600 (B) ₹ 2000 (C) ₹ 2200 (D) ₹ 2400

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