

Maths Questions for CLAT Exam. **CLAT Maths Quiz 38** Directions: Read the following Questions carefully and choose the right answer: $27.33 \times \left(\frac{567.33 - 438.79}{58.67}\right) = ?$ 1. A. 67.13 B. 59.85 C. 58.95 D. 55.98 2. The difference between two numbers is 1365. When larger number is divided by the smaller one, the quotient is 6 and the remainder is 15. The smaller number is A. 270 C. 275 D. 280 B. 250 3. Of the three numbers, the first is twice t he second and the second is twice the third. The average of the reciprocal of the three numbers is 7/72. The numbers are A. 7, 8, 22 B. 6, 12, 24 C. 12. 8. 10 D. 25, 6, 9 4. A school has only three classes which accommodate 40, 50 and 60 students respectively. If the pass percentages of these classes are 10%, 20% and 10% respectively, then the percentage of passed students in the school is D. $12\frac{1}{5}\%$ C. $13\frac{1}{3}\%$ A. 12% B. 15% 5. If a certain sum amount to Rs. 108 in 2 years, and Rs. 112 in 3 years, find the principal and simple interest rate. A. 7% C. 6% B. 5% D. 4% 6. If $x = \frac{\sqrt{3} + 1}{\sqrt{3} - 1}$ and $y = \frac{\sqrt{3} - 1}{\sqrt{3} + 1}$, then find the value of $x^2 + y^2$. A. 19 B. 11 C. 14 D. 15 7. Point A is 10 cm from the centre of the circle. The length of the tangent drawn from Point A to the circle is 8 cm. Find the radius of the circle. A. 2 cm C. 5 cm D. 6 cm. B. 4 cm 8. There is a flower bed in the shape of trapezium. Its parallel sides are 60 m and 80 m respectively. If the distance between parallel sides is 20m, find the area of the flower bed. 60m 20m 80m C. 1350 m² A. 1100 m² B. 1400 m² D. 1050 m²

9. In a single throw of a fair die what is the probability that the number on the top is more than 2?

A.
$$\frac{2}{3}$$
 B. $\frac{3}{2}$ C. $\frac{5}{3}$ D. $\frac{3}{5}$

10. A man is standing at a distance of 25m from the bottom of the tree, and he finds that the angle of elevation of the top of the tree is 30°, find the height of the tree.

A.
$$\frac{15}{\sqrt{3}}$$
 m B. $\frac{25}{\sqrt{3}}$ m C. $\frac{19}{\sqrt{3}}$ m D. 15V3 m

Correct Answers:



Explanations:

1.

$$27.33 \times \left(\frac{567.33 - 438.79}{58.67}\right) = 27.33 \times \left(\frac{128.54}{58.67}\right)$$
$$= 27.33 \times 2.19 = 59.85$$

Hence, option B is correct.

- 2. Let the numbers be x and 1365 + x. Then 1365 + x = 6x + 15 = x = 270Hence, option A is correct.
- **3.** Let the third number be a. Then, second number = 2a and first number = 4a According to the question,

$$\frac{\frac{1}{a} + \frac{1}{2a} + \frac{1}{4a}}{3} = \frac{7}{72}$$

$$\Rightarrow \frac{7}{4a} = \frac{7}{24} \Rightarrow 4a = 24$$

$$\Rightarrow a = 6, 2a = 12 \text{ and } 4a = 24$$

$$\Rightarrow \text{ The numbers are 6, 12 and 24.}$$

Hence, option B is correct.







