



GG RS LEARNING HUB PVT. LTD.

IMO Class 06

Total Questions: 35

Time: 60 min

- The sum of two integers is -25. If one of them is 15, what is the product of the two integers?
A) -600 B) -250
C) 600 D) -40
- A number 'N' is a common multiple of 12 and 15. It is also a factor of 1200. If N lies between 200 and 400, what is the value of N?
A) 240 B) 300
C) 360 D) Both 240 and 300 are possible
- If $x:y = 3:4$ and $y:z = 6:7$, what is the ratio $x:z$?
A) 3:7 B) 9:14
C) 1:2 D) 18:28
- A rectangle has a perimeter of 50 cm. If its length is 4 cm more than twice its breadth, what is its area?
A) 147 sq. cm B) 150 sq. cm
C) 126 sq. cm D) 200 sq. cm
- What is the value of $1 - \frac{1}{2} + \frac{1}{4} - \frac{1}{8} + \frac{1}{16}$?
A) $\frac{11}{16}$ B) $\frac{9}{16}$
C) $\frac{13}{16}$ D) $\frac{1}{2}$
- In a triangle, the second angle is double the first angle, and the third angle is 30° more than the first angle. What is the measure of the largest angle?
A) 75° B) 80° C) 90° D) 60°
- A shopkeeper bought 72 apples for ₹324 and sold them at a profit of ₹90. What was the selling price of each apple?
A) ₹5.50 B) ₹5.75
C) ₹6.00 D) ₹6.25
- Simplify the expression: $5x - [3y - \{2x - (y - x)\}]$
A) $4x - 2y$ B) $6x - 4y$
C) $4x - 4y$ D) $6x - 2y$
- What is the smallest number of 4 digits which is exactly divisible by 18, 24, and 32?
A) 1152 B) 1440
C) 1728 D) 1008
- If 40% of a number is 256, what is 25% of that number?
A) 160 B) 180 C) 640 D) 200
- A wire in the shape of a rectangle with length 24 cm and breadth 18 cm is bent to form a square. What is the side length of the square?
A) 21 cm B) 20 cm
C) 22 cm D) 19 cm
- The ages of A and B are in the ratio 5:7. Eight years ago, their ages were in the ratio 7:13. What is the current age of B?
A) 20 years B) 28 years
C) 35 years D) 15 years
- Find the next term in the sequence: 2, 5, 11, 23, 47, ...
A) 95 B) 94 C) 70 D) 81



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14. How many lines of symmetry does a regular heptagon have?
A) 0 B) 1 C) 7 D) 14
15. What is the value of $(-2)^5 \times (-3)^2$?
A) 288 B) -288
C) -192 D) 180
16. A survey of 120 students shows that $\frac{3}{5}$ of them like cricket. Of the remaining students, 50% like football. How many students like football?
A) 72 B) 48 C) 24 D) 30
17. If the area of a circle is 616 cm^2 , what is its circumference? (Use $\pi = \frac{22}{7}$)
A) 44 cm B) 88 cm
C) 176 cm D) 154 cm
18. What decimal of an hour is a second?
A) 0.0027 B) 0.00027...
C) 0.025 D) 0.0016
19. A fruit seller buys lemons at 2 for a rupee and sells them at 5 for three rupees. What is his gain percent?
A) 10% B) 15%
C) 20% D) 25%
20. What least value must be assigned to * so that the number $63576*2$ is divisible by 8?
A) 1 B) 2 C) 3 D) 4
21. The sum of three consecutive integers is 93. What is the largest integer?
A) 30 B) 31 C) 32 D) 33
22. A rectangular floor is 12 m long and 8 m wide. It is to be tiled with square tiles of side 40 cm. How many tiles are required?
A) 60 B) 600 C) 120 D) 1200
23. A batsman scored 110 runs, which included 3 boundaries and 8 sixes. What percent of his total score did he make by running between the wickets?
A) $45 \frac{5}{11} \%$ B) $54 \frac{6}{11} \%$
C) 45% D) 55%
24. If 15 is subtracted from 7 times a number, the result is 114. What is the number?
A) 18.4 B) 19.2 C) 17 D) 19
25. A tap can fill a tank in 8 hours and another can empty it in 16 hours. If both taps are opened together, in how many hours will the tank be filled?
A) 8 hours B) 10 hours
C) 16 hours D) 24 hours
26. A certain sum of money amounts to ₹1008 in 2 years and to ₹1164 in 3.5 years at simple interest. Find the sum.
A) ₹800 B) ₹900
C) ₹750 D) ₹850
27. What is the angle between the hour hand and the minute hand of a clock at 3:30?
A) 75° B) 90° C) 60° D) 105°
28. The population of a town was 62,500. Due to migration to cities, it decreases



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- by 4% every year. What will be its population after 2 years?
- A) 57,600 B) 57,800
C) 60,000 D) 55,200
29. A library has an average of 510 visitors on Sundays and 240 on other days. What is the average number of visitors per day in a month of 30 days, beginning with a Sunday?
- A) 285 B) 290 C) 300 D) 295
30. Find the value of x if $2x - \frac{1}{3} = \frac{1}{5} - x$.
- A) $\frac{8}{15}$ B) $\frac{8}{45}$
C) $\frac{4}{15}$ D) $\frac{2}{15}$
31. If $2A = 3B = 4C$, what is $A:B:C$?
- A) 2:3:4 B) 4:3:2
C) 6:4:3 D) 3:4:6
32. The sides of a triangle are in the ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$. If the perimeter of the triangle is 52 cm, what is the length of the smallest side?
- A) 9 cm B) 10 cm
C) 11 cm D) 12 cm
33. A train travelling at 60 km/h crosses a man in a train travelling in the opposite direction at 48 km/h in 6 seconds. What is the length of the faster train?
- A) 150 m B) 180 m
C) 200 m D) 120 m
34. A number consists of two digits whose sum is 8. If 18 is subtracted from the number, its digits are reversed. What is the number?
- A) 26 B) 35 C) 53 D) 62
35. What is the number of diagonals in a polygon with 10 sides?
- A) 20 B) 27 C) 35 D) 44