

Typical question paper format

Mathematics (Geometry, Algebra, Arithmetic, Number Theory)

Note: The question paper format will be as follows, with the questions differing at each level.



If the product of two numbers is 72, and their sum is one fourth of it, what are the numbers?

- a) 12 and 6
- b) 9 and 8
- c) 10 and 8
- d) 9 and 9

A number is divisible by both 3 and 4. Which of the following must also divide the number?

- a) 6
- b) 7
- c) 9
- d) 12

In a triangle, the sum of two angles is equal to the third angle. What type of triangle is it?

- a) Scalene
- b) Isosceles
- c) Right-angled
- d) Obtuse-angled

If $x^2 - 5x + 6 = 0$ what are the roots of the equation?

- a) 2 and 3
- b) -2 and 3
- c) 3 and -3
- d) 5 and 6

A shopkeeper sells an item at a 20% profit. If the cost price is ₹500, what is the selling price?

- a) ₹600
- b) ₹550
- c) ₹625
- d) ₹700

Which of the following is the smallest prime number that is greater than 100?

- a) 101
- b) 103
- c) 107
- d) 109

A circle has a radius of 7 cm. What is its area (use $\pi = 22/7$)?

- a) 44 cm^2
- b) 49 cm^2
- c) 154 cm^2
- d) 308 cm^2

If a train travels 60 km in 1.5 hours, what is its speed in m/s?

- a) 10 m/s
- b) 11.11 m/s
- c) 12 m/s
- d) 16.67 m/s

A parallelogram has a base of 10 cm and a height of 6 cm. What is its area?

- a) 60 cm^2
- b) 30 cm^2
- c) 20 cm^2
- d) 100 cm^2

What is the least common multiple (LCM) of 15 and 20?

- a) 60
- b) 120
- c) 30
- d) 80

1. a, 2. d, 3. c, 4. a, 5. a, 6. a, 7. c, 8. d, 9. a, 10. a