



MODEL QUESTION PAPER
International Mathematics Olympiad

CLASS:7TH

IMO

Time Duration: 1 Hour
Total Marks: 60

Instructions:

- Each question carries 2 marks.
- Answer all questions.
- There is no negative marking.

Section A:

Arithmetic (10 Questions, 20 Marks)

1. Solve: $(36 \div 4 + 5 \times 3)$

- a) 21
- b) 24
- c) 27
- d) 30

****Answer: b) 24****

2. Calculate: (2.5×4.8)

- a) 11.2
- b) 12
- c) 12.5
- d) 13

****Answer: c) 12.5****

3. What is the smallest prime number?

- a) 1
- b) 2
- c) 3
- d) 4

****Answer: b) 2****

4. Simplify: $(\frac{3}{4} + \frac{5}{6})$

- a) $(\frac{7}{6})$
- b) $(\frac{8}{6})$
- c) $(\frac{9}{6})$
- d) $(\frac{10}{6})$



****Answer: a) $\left(\frac{7}{6}\right)$ ****

5. Find the value of $(5^2 - 3^2)$:

- a) 16
- b) 22
- c) 25
- d) 34

****Answer: c) 25****

6. What is (0.75) expressed as a fraction?

- a) $\left(\frac{3}{4}\right)$
- b) $\left(\frac{1}{2}\right)$
- c) $\left(\frac{2}{3}\right)$
- d) $\left(\frac{1}{3}\right)$

****Answer: a) $\left(\frac{3}{4}\right)$ ****

7. Subtract (0.45) from (2.1) :

- a) 1.65
- b) 1.55
- c) 1.35
- d) 1.25

****Answer: b) 1.55****

8. Calculate the perimeter of a rectangle with length (8) cm and width (5) cm:

- a) 24 cm
- b) 26 cm
- c) 30 cm
- d) 36 cm

****Answer: c) 26 cm****

9. If $(x + 6 = 11)$, then (x) is:

- a) 4
- b) 5
- c) 6
- d) 7

****Answer: b) 5****

10. Find the area of a square with side length (7) cm:

- a) 21 sq cm
- b) 28 sq cm
- c) 35 sq cm
- d) 49 sq cm

****Answer: d) 49 sq cm****

Section B:

Geometry (10 Questions, 20 Marks)

11. What is the sum of the interior angles of a triangle?

- a) 90 degrees
- b) 180 degrees
- c) 270 degrees
- d) 360 degrees

****Answer: b) 180 degrees****

12. Calculate the area of a triangle with base (6) cm and height (8) cm:

- a) 24 sq cm
- b) 32 sq cm
- c) 36 sq cm
- d) 48 sq cm

****Answer: a) 24 sq cm****

13. The perimeter of a square garden is (40) meters. What is the length of one side?

- a) 8 m
- b) 10 m
- c) 12 m
- d) 15 m

****Answer: b) 10 m****

14. Calculate the circumference of a circle with radius (7) cm:

- a) (14π) cm
- b) (21π) cm
- c) (28π) cm
- d) (35π) cm

****Answer: a) (14π) cm****

15. Find the perimeter of a rectangle with length (12) cm and width (4) cm:

- a) 32 cm
- b) 36 cm
- c) 40 cm
- d) 48 cm

****Answer: c) 40 cm****

16. Calculate the volume of a cube with side length (3) cm:

- a) 9 cubic cm
- b) 18 cubic cm
- c) 27 cubic cm
- d) 36 cubic cm

****Answer: c) 27 cubic cm****

17. What is the surface area of a cube with side length (5) cm?

- a) 100 sq cm
- b) 125 sq cm



c) 150 sq cm

d) 175 sq cm

****Answer: b) 150 sq cm****

18. Calculate the area of a circle with diameter $\sqrt{14}$ cm:

a) $\sqrt{49\pi}$ sq cm

b) $\sqrt{98\pi}$ sq cm

c) $\sqrt{154\pi}$ sq cm

d) $\sqrt{196\pi}$ sq cm

****Answer: a) $\sqrt{49\pi}$ sq cm****

19. The height of a triangle is $\sqrt{8}$ cm and its base is $\sqrt{12}$ cm. What is its area?

a) 48 sq cm

b) 56 sq cm

c) 64 sq cm

d) 72 sq cm

****Answer: a) 48 sq cm****

20. Find the area of a parallelogram with base $\sqrt{10}$ cm and height $\sqrt{6}$ cm:

a) 56 sq cm

b) 60 sq cm

c) 66 sq cm

d) 70 sq cm

****Answer: b) 60 sq cm****