

SWO International Mathematics Olympiad 2021-22

Class 6th

Questions: 20

Time Duration: 30 Minutes

There are 4 Sections- 5 Questions in Section-1, 5 Questions in Section-2, 5 Questions in Section-3, 5 Questions in Section-4.

Section 1- (Numbers & Geometry)

1. Check if 7410 is divisible by 10
 - a. It's divisible
 - b. It's not divisible
 - c. Can't say
 - d. I don't know (a)

2. What are the common factors of 25 and 55?
 - a. 1 and 5
 - b. 3 and 5
 - c. 7 and 5
 - d. 9 and 5 (a)

3. There are two containers having 240 litres and 1024 litres of petrol respectively. Calculate the maximum capacity of a container which can measure the petrol of both the containers when used an exact number of times.
 - a. 13 l
 - b. 14 l
 - c. 15 l
 - d. 16 l (d)

4. A figure formed from two rays which share a common endpoint is called ___.
 - a. Vertex
 - b. Angles
 - c. Arms
 - d. Sides (b)

5. What is the additive inverse of -9?

- a. -9
 - b. 9
 - c. -8
 - d. 8
- (b)

Section 2- (Integers, Fractions & Decimals)

6. Subtract (-4) from 3.

- a. 1
 - b. -1
 - c. 7
 - d. -7
- (d)

7. Find three equivalent fraction of $\frac{1}{2}$.

- a. $\frac{2}{4}$, $\frac{3}{6}$, $\frac{4}{8}$
 - b. $\frac{3}{4}$, $\frac{4}{6}$, $\frac{4}{8}$
 - c. $\frac{4}{4}$, $\frac{3}{6}$, $\frac{4}{8}$
 - d. $\frac{2}{4}$, $\frac{4}{6}$, $\frac{4}{8}$
- (a)

8. What is 7 rupees and 35 paise in decimals?

- a. 7.35
 - b. 7.035
 - c. 7.0035
 - d. 7.00035
- (a)

9. If the height of Amit is 175 cm then what will be his height in meters?

- a. 1.075 m
 - b. 1.0075 m
 - c. 1.75 m
 - d. 1.00075 m
- (c)

10. Add 2.345 and 5.2.

- a. 7.542
 - b. 7.543
 - c. 7.544
 - d. 7.545
- (d)

Section 3- (Decimals and Mensuration)

11. Subtract 354.97 from 513.21

- a. 158.24
 - b. 158.25
 - c. 158.26
 - d. 158.27
- (a)

12. The length and breadth of a rectangular swimming pool are 17 and 13 meters respectively. Find the perimeter of the pool.

- a. 60
 - b. 47
 - c. 50
 - d. 57
- (a)

13. Find the cost of fencing a rectangular farm of length 25 meters and breadth 19 meters at Rs. 9 per meter.

- a. 672
 - b. 782
 - c. 792
 - d. 682
- (c)

14. Find the perimeter of a square having side length 26 cm.

- a. 101
 - b. 102
 - c. 103
 - d. 104
- (d)

15. Find the perimeter of a triangle having each side length 14 cm.

- a. 42 cm
 - b. 41 cm
 - c. 40 cm
 - d. 39 cm
- (a)

Section 4- (Mensuration, Algebra, Ratio & Proportion)

16. What will be the length of the rectangle if its breadth is 7 m and the area is 49 sq. m?

- a. 6
- b. 7

- c. 8
- d. 9 (b)

17. Calculate the area of a square of side 14 cm.

- a. 194
- b. 195
- c. 196
- d. 197 (c)

18. 4 girls go to the theatre. The cost of the ticket and popcorn is \$44 and \$25 respectively. What is the cost per person?

- a. 276
- b. 201
- c. 286
- d. 202 (a)

19. If there are 25 boys and 35 girls in a class, then what is the ratio of number of girls to total students?

- a. 5: 12
- b. 6: 12
- c. 7: 12
- d. 8: 12 (c)

20. If the cost of 30 toys is Rs. 5000, then how many toys can be purchased for Rs. 7000?

- a. 40
- b. 41
- c. 42
- d. 43 (c)