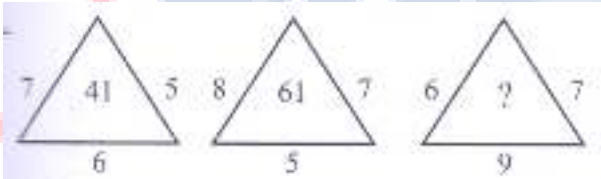


**International Foundation Mathematics Olympiad(IFMO)
CLASS 7
WORKSHEET – 1**

SECTION-A (Logical Reasoning)

1. Choose the appropriate number which follows the given pattern.



- a) 61
b) 71
c) 51
d) 59
2. In each of the following questions, a number series is given with one missing term. Choose correct alternative that will continue the same pattern and fill in the blank spaces.
- 1000, 200, 40, _____
- a) 8
b) 10
c) 15
d) 20
3. In each of the following letter series, some of the letters are missing, which are given in such order as one of the alternatives below it. Choose the correct alternative.
- __ op __ mo. __ n __ pnmop__
- a) mnpmon
b) mpnmop
c) mnompn
d) mnpomn
4. In each of the following questions, an alphabet series is given with one missing term. Choose correct alternative that will continue the same pattern and fill in the blank spaces.
- QAR, RAS, SAT, TAU, _____
- a) UAV
b) UAT
c) TAS
d) TAT

5. Find the odd one out.

41, 43, 47, 53, 61, 71, 73, 81

a) 63

c) 73

b) 71

d) 81

6. In a certain code, ROAD is written URDG, how is SWAN written in that code?

a) VZCP

c) VZDQ

b) UXDQ

d) VXDQ

7. Arrange the given words in alphabetical order and choose the one that comes first.

a) waving

c) waiting

b) watching

d) wanting

8. Sia introduced Raghav as the son of the only daughter of the father of her uncle. How is Raghav related to Sia?

a) Brother

c) Nephew

b) Cousin

d) Can't be determined

9. Sachin walks 20 km towards North. He turns left and walks 40 km. He again turns left and walks 20 km. Finally he moves 20 km after turning to the left. How far is he from his starting position?

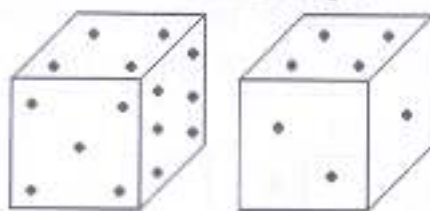
a) 20 km

c) 50 km

b) 30 km

d) 60 km

10. Here two positions of a dice are shown. If there are two dots in the bottom, then how many dots will be on the top?



a) 2

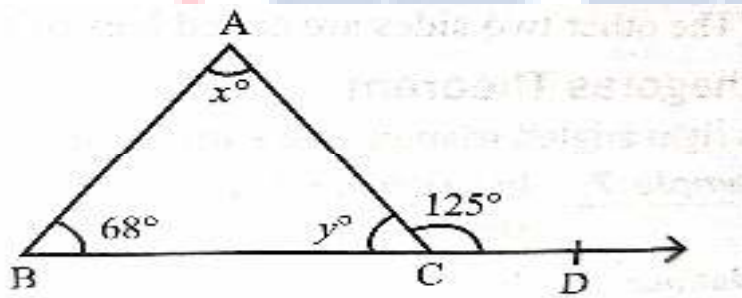
c) 5

b) 3

d) 6

SECTION-B (Day to Day Mathematics)

11. Which of the following is the smallest whole number if the number $418 * 342$ is completely divisible by 3?
- a) 0
b) 1
c) 2
d) 3
12. By what number should $\frac{-33}{8}$ be divided to get $\frac{11}{2}$?
- a) $\frac{3}{4}$
b) $-\frac{3}{4}$
c) $\frac{4}{3}$
d) $-\frac{4}{3}$
13. The sum of two integers is -17. If one of them is 15, then what is the other?
- a) -2
b) 32
c) -32
d) -7
14. $0.4 \div 0.4 \div 0.4 = ?$
- a) 0.25
b) 0.025
c) 2.5
d) None of these
15. 3.5% of income is taken as tax and 12.5% of the remaining is saved. This leaves Rs. 4,053 to spend. What is the income?
- a) Rs. 6000
b) Rs. 7200
c) Rs. 5600
d) Rs. 4800
16. $(256)^{0.16} \times (256)^{0.09} = ?$
- a) 4
b) 16
c) 64
d) 256.25
17. What is the mean of the following numbers.
7.6, 6.8, 8.5, 9.4, 5.9, 6.4, 9.1, 4.7?
- a) 7.1
b) 7.2
c) 7.3
d) 7.4
18. In the given figure, find the values of x and y.



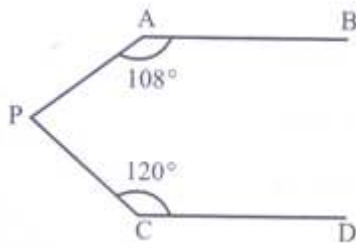
a) $y = 62^\circ, x = 50^\circ$

c) $x = 52^\circ, y = 40^\circ$

b) $x = 62^\circ, y = 50^\circ$

d) $x = 50^\circ, y = 60^\circ$

19. In the following figure, if $AB \parallel CD$, $\angle BAP = 108^\circ$ and $\angle PCD = 120^\circ$. What is the measure of $\angle APC$?



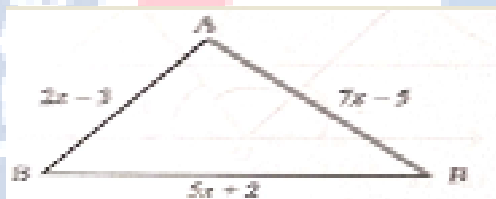
a) 72°

c) 132°

b) 92°

d) None of these

20. If the sides of a triangle are as given in the figure. The perimeter of triangle is 78 m. What is the measure of the highest side?



a) 32 m

c) 35 m

b) 37 m

d) 38 m

21. After 12 years Manish will be three times as old as he was 4 years ago. What is his present age?

a) 12 years

c) 16 years

b) 14 years

d) 18 years

22. Find the simplified expression of

$$7x^2 - [x^2 - 3x - \{x + y\}] - (5x - 3y + 3).$$

a) $6x^2 - 2x + 4y + 3$

c) $6x^2 - 2x - 4y - 3$

b) $6x^2 - 2x + 4y - 3$

d) None of these

23. What is the median of first 9 multiples of 12?
- a) 36
 - b) 48
 - c) 60
 - d) 72
24. The percentage increase in the area of a rectangle, if each of its sides is increased by 20%, is:
- a) 40%
 - b) 42%
 - c) 44%
 - d) 46%
25. What is the volume of 32 metre high cylindrical tank?
- I The area of its base is 154m^2 .
 - II The diameter of the base is 14 m.
- a) I alone sufficient while II alone not sufficient to answer.
 - b) II alone sufficient while I alone not sufficient to answer.
 - c) Either I or II alone sufficient to answer
 - d) Both I and II are not sufficient to answer

ANSWER IFMO CLASS 7 – WORKSHEET - 1																			
1	C	2	A	3	A	4	A	5	D	6	C	7	C	8	D	9	A	10	C
11	C	12	B	13	C	14	C	15	D	16	A	17	C	18	B	19	C	20	B
21	A	22	B	23	C	24	C	25	C										