

**International Foundation Mathematics Olympiad (IFMO)**  
**CLASS 5**  
**WORKSHEET – 1**

**SECTION-A ( Logical Reasoning )**

1. Find the missing element:  
D-4, F-6, H-8, J-10, ? , ?
  - a) K-12, M-13
  - b) L-12, M-14
  - c) L-12, N-14
  - d) K-12, M-14
2. Dancer is related to Stage in the same way as Priest is related to
  - a) Pulpit
  - b) Assembly
  - c) Parliament
  - d) State
3. Find the odd-one out.
  - a) Ink
  - b) Pen
  - c) Pencil
  - d) Brush
4. In a certain code, ROAD is written as URDG. How is SWAN written in that code?
  - a) VXDQ
  - b) VZDQ
  - c) VZCP
  - d) UXDQ
5. If air is called green, green is called blue, blue is called sky, sky is called yellow, yellow is called water and water is called pink, then what is the colour of clear sky?
  - a) Blue
  - b) Sky
  - c) Yellow
  - d) Water
  - e) Pink
6. Arrange the given words in Alphabetical Order and choose the one that comes first.
  - a) Signature
  - b) Sight
  - c) Shrine
  - d) Shrill
  - e) Shrink
7. A rat runs towards East and turns to right, runs and turns to right, runs and again turns to left, runs and then turns to left, runs and finally turns to left

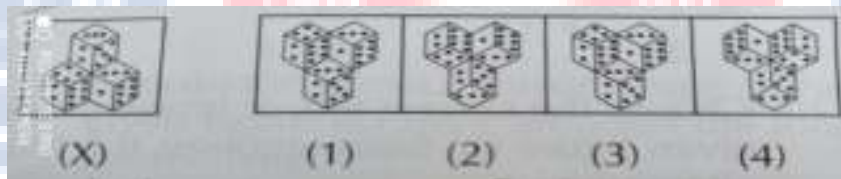
and runs. Now, which direction is the rat facing?

- a) East
- b) West
- c) North
- d) South

8. Choose the correct mirror image of the given figure (X) from amongst the four alternatives.

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

9. In each of the following questions, a figure marked (A) is followed by four figures (1), (2), (3) and (4) which show the possible water images of figure (A). Choose one out of these four figures which shows the correct water image of the figure (A)



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

10. In a certain code, RIPPLE is written as 613382 and LIFE is written as 8192. How is PILLER written in that code?

- a) 318826
- b) 318286
- c) 618826
- d) 338816

### SECTION-B ( Day to Day Mathematics )

11. How many three-digit numbers can be formed with the digits 3, 0 and 7 without repetition?

- a) 6
- b) 5
- c) 4
- d) 3

12. Write MMMCXXXIV as a number.

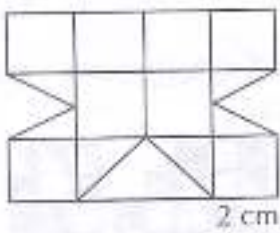
- a) 3034
- b) 3134
- c) 3334
- d) 3224

13. What is the value of

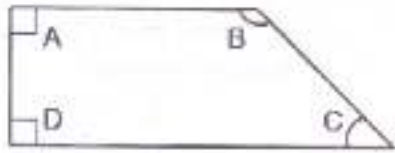
$$(3^3 - 2 \times 7) + (5 \times 3 - 2^2)?$$

- a) 8
- b) 24
- c) 186
- d) 536

14. Divide the greatest number of 9 digits by the greatest number of 3 digits.  
a) 1001001    c) 1001011  
b) 1001101    d) 1000001
15. For the number 36.2495, what is the place value of the digit 9?  
a) 9 tenths    c) 9 thousandths  
b) 9 hundredths    d) 9 ten-thousandths
16. What is the greatest common factor of 81 and 180?  
a) 9    c) 27  
b) 18    d) 36
17. Fill in the blank :  $32 \text{ m} : 64 \text{ m} = 6 \text{ sec} : \underline{\hspace{2cm}}$   
a) 13 sec    c) 8 sec  
b) 12 sec    d) 24 sec
18. Shraddha needs 6 containers which can hold 151600 ml oil. Find the capacity of each container.  
a) 21 500 ml    c) 31 200 ml  
b) 21 600 ml    d) 21 100 ml
19. To convert minutes into seconds we multiply the number of minutes by  
a) 70    c) 30  
b) 60    d) 50
20. Convert  $68^{\circ}$  Fahrenheit to Celsius.  
a)  $154.4^{\circ} \text{ C}$     c)  $55.6^{\circ} \text{ C}$   
b)  $64.8^{\circ} \text{ C}$     d)  $20^{\circ} \text{ C}$
21. What is the area of the figure given below?

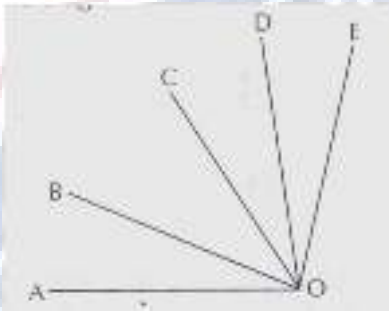


- a)  $48 \text{ cm}^2$     c)  $40 \text{ cm}^2$   
b)  $44 \text{ cm}^2$     d)  $20 \text{ cm}^2$
22. Which angle in the given figure is acute?



- a) Angle A
- b) Angle B
- c) Angle C
- d) Angle D

23. How many acute angles are there in the diagram?



- a) 10
- b) 9
- c) 7
- d) 4

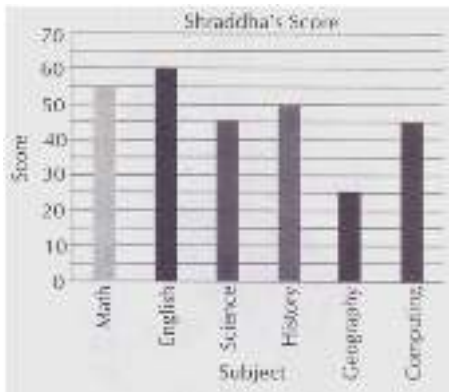
24. A fair die was thrown 100 times. The frequency distribution is shown in the following table

Score	Frequency
1	16
2	18
3	11
4	15
5	19
6	21

How many throws scored less than 3?

- a) 11
- b) 34
- c) 45
- d) 56

25. The bar graph shows the scores obtained by Shraddha in her end of year exams.



How many more did Shraddha score in her best subject than in her worst subject?

- a) 25
- b) 35
- c) 45
- d) 60

**ANSWER IFMO CLASS 5 – WORKSHEET - 1**

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