

- 1. Find the missing number, if same rule is followed in all the three figures.
- 5 3 4 3 4 8 30 2 A. 110 B. 120 C. 80 D. 95
- 2. How many such pairs of letters are there in the word ORDINAL each of which has the same number of letters between them as in the English alphabets?
  - A. One
  - B. Two
  - C. Three
  - D. None
- If '-' stands for division, '+' stands for multiplication,
  '÷' stands for subtraction and '×' stands for addition,
  then find the value of 75 × 5 ÷ 80 16 + 3.
  - A. 60
  - B. 70
  - C. 80
  - D. 65

2

4. Which of the following options does not satisfy the same conditions of placement of dots as in the given figure?







- A. 18
- B. 15
- C. 17
- D. More than 18
- 6. Select the odd one out.
  - A. 43
  - B. 80
  - C. 15
  - D. 90
- 7. Group the given figures into three classes on the  $b_{asis}$  of their identical properties using each figure only once.



- A. 1, 2, 3; 4, 6, 9; 5, 7, 8
- B. 1, 5, 6; 2, 3, 4; 7, 8, 9
- C. 1, 5, 9; 2, 4, 8; 3, 6, 7
- D. 1, 2, 4; 5, 6, 8; 3, 7, 9
- 8. How many 2's are there in the given sequence each of which is immediately preceded by an odd number but not immediately followed by 4?

#### 4529762152893457924

- A. None
- B. One
- C. Two
- D. More than two
- 9. There is a certain relationship between the terms on the either side of :.. Identify the relationship on left pair and find the missing term.

## BHN: EKQ::DJP:?

- A. EKQ
- B. GMS
- C. HLR
- D. JPV

■ SਊF | IMO | Class-7 | Set-A | L<sup>evel 1</sup>

A transparent sheet with a pattern and a dotted line
 A transparent sheet with a pattern and a dotted line is given. Select a figure from the options as to on it is given. Select a figure from the transparent how the pattern would appear when the transparent how the pattern would appear when the transparent how the folded along the dotted line.

₽<sup>4</sup>



- Pointing towards Shikha, Vansh said, "She is the daughter of the only child of my grandfather." How is Shikha related to Vansh?
  - A. Daughter
  - B. Mother
  - C. Sister
  - D. Aunt

A.

B

12. Choose a box from the options that is similar to the box formed when the given sheet is folded to form a box.





13. Find the correct water image of the given figure.



- 14. In a certain code language, INACTIVE is coded as CXGVACLK. How will OPERATOR be coded in the same code language?
  - A. PGNQPQRC
  - B. NODQBUPS
  - C. PQRCPGNQ
  - D. PQFSBUPS
- 15. Manish walks 10 m towards South. From there, he walks 6 m towards North. Then he walks 3 m towards West. How far and in which direction is he now with respect to his starting point?
  - A. 7 m, North-West
  - B. 5 m, South-East
  - C. 5 m, South-West
  - D. 7 m, North-East

# MATHEMATICAL REASONING

16.	25% of 50% of 100%
10.	25 of $100 \times 50\%$ of 100 is equal to

- A. 0.0001%
- B. 0.1%
- C. 0.01%
- D. 1%
- 17. In the figure (not drawn to scale), ADF and BEF are triangles and EC = ED, find the value of y.



B. 91°

A.

- C. 92°
- D. 93°
- 18. Find the value of  $\frac{(21)^{17} \times (18)^{21} \times 128}{(6)^7 \times (28)^4}$ B.  $2^{13} \times 3^{53} \times 7^{14}$   $(6)^7 \times (28)^4$ C.  $2^{14} \times 3^{23} \times 7^{13}$ 
  - D.  $2^{13} \times 3^{52} \times 7^{13}$
- 19. Which of the following value will replace X in the given expression?

 $(-91) \div X + 68 \div (-17) = -11$ 

- A 13
- B. 7
- C. 12
- D. 9
- 20. The sum of the digits of a two-digit number is 10. If ten's digit is one more than two times of unit's digit, then find the number.
  - A. 82
  - B. 73
  - C. 64
  - D. 91
- 21. In the given figure (not drawn to scale), *ABCD* is a rectangle in which *CE* intersects *AB* at point *E* and *ADFA* is a semicircle whose diameter is *AD*. What is the area of the unshaded region of the given figure?



- 22. If two supplementary angles are in the ratio 4 : 5, then find the difference between the angles.
  - A. 78°

A.

B.

C.

D.

- B. 54°
- C. 126°
- D. 20°

23. The sum of three rational numbers is  $\frac{17}{48}$ . If two of them are  $\frac{-7}{8}$  and  $\frac{5}{12}$ , then find the third rational number.

A.	$\frac{7}{16}$
B.	$\frac{5}{18}$
C.	$\frac{13}{16}$
D.	$\frac{11}{18}$

24. Find the value of  $2a^2 + b^2 + 5ab + 9$ , when a = -3and b = -2.

- A. 14
- B. 61
- C. 74
- D. 45
- 25. The average weight of 10 students of class 7 is 36 kg. If the average weight of 8 of them is 34 kg, then find the sum of weights of remaining two students.
  - A. 88 kg
  - B. 45 kg
  - C. 70 kg
  - D. None of these





- 3 A. 4 B. 5 C.
- 6 D.
- 27. Which of the following options shows the front view of the given figure?











28.	If $\frac{3}{7}$ of a number is 33.75,	then what is the value of
	5	

- of that number? 7
- A. 78.50
- B. 65.75
- C. 68.25
- D. 56.25

- Which of the following options shows the integers 29. arranged in descending order?
  - -43, -37, -12, 0, 6, 18 A. - 43, -12, -37, 0, 6, 18 B. C. 18, 6, 0, -12, -37, -43 18, 6, 0, -43, -37, -12D.
- 30. Which of the following numbers is not divisible by 8?
  - A. 765176
  - 556764 Β.
  - 772648 C.
  - D. 555112
- How many minimum number of shaded squares must 31. be unshaded to make the given figure symmetric along the dotted line?



Α.	1
B.	2
C.	3
D.	4

- Find the difference between the place values of two 32. 7's in 476785.
  - 9300 A.
  - B. 67400
  - C. 25700
  - 69300 D.
- 33. Find the sum of shaded fractions of the given figures.

(ii)



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34. For which value of x, the given ratios will form a proportion?

		35:65:56:x
Α	91	
В.	78	
C.	117	
D.	104	

35. Which of the following points will lie to the exterior of  $\angle COD$ ?



- A. Q, B and S
- B. Q, B, S and P
- C. B, S, A and P
- D. C, P, A and S

### **EVERYDAY MATHEMATICS**

36. The given observations shows the number of masks sold by a shopkeeper on different days of a week.

37, 57, 48, 33, 39, 64, 86

Find the average sale of masks sold.

- A. 54
- B. 47
- C. 49
- D. 52
- 37. A farmer borrowed ₹ 5500 at 8% per annum. After 5 years, he cleared the account by giving ₹ 6000 and a cow. Find the cost of the cow.
  - A. ₹2100
  - B. ₹1900
  - C. ₹1700
  - D. ₹1500
- 38. Radhika earns ₹ 20000 per month. She spends 1/5 of her income on food, 3/10 of the income on house rent and 9/20 of income on the education of children. How much money is still left with her?
  - A. ₹1000
  - B. ₹8500
  - C. ₹1050
  - D. ₹9500
- 39. Aayush bought a school bag for ₹ 736.45 and a belt for ₹ 384.85. He gave a note of ₹ 2000 to the shopkeeper. How much amount will he get back from the shopkeeper?
  - A. ₹878.70
  - B. ₹935.35
  - C. ₹ 694.75
  - D. ₹ 782.65

40. There are three places A, B, C in a straight line as shown below. If distance between place A and B is  $(2.4 \times 10^6)$  m and distance between place B and C is  $(5.2 \times 10^5)$  m, then find the distance between place A and C in standard form.

	A	В	C
A.	(292 × 10 <sup>6</sup> ) km		
B.	(2.92 × 10 <sup>6</sup> ) m		
C.	(292 × 10 <sup>5</sup> ) m		
D.	$(2.92 \times 10^4) \text{ m}$		

- 41. To reach school from his house, Rachit went 12 km towards South, then 5 km towards West. What is the shortest distance between Rachit's house and his school?
  - A. 13 km
  - B. 14 km
  - C. 15 km
  - D. 16 km
- 42. Samar divides his wealth among his three sons Sahil, Varun and Amit in the ratio of 5 : 3 : 7. If Varun gets ₹ 73,125, then find the total wealth of Samar.
  - A. ₹2,75,875
  - B. ₹ 3,65,625
  - C. ₹ 3,75,825
  - D. ₹2,65,675
- 43. Amaira purchased a rectangular colour paper sheet of length 222 cm and breadth 138 cm to make greeting cards. How many greeting cards of square shape having side 6 cm can she make from it?
  - A. 876
  - B. 768
  - C. 851
  - D. None of these

- Ankush got ₹ 500 on his birthday. On the next day, 44. he got ₹ 350 as pocket money from his father and spent ₹ 275 on repairing his cycle. On the next day, his sister gave him ₹ 170 as a reward. Now, how much total money will be left with him?

  - B. ₹ 650
  - C. ₹ 750
  - D. ₹ 845
- 46.

The given bar graph shows the number of admissions taken by schools A and B in Science stream from 2017 to 2021. Study the graph carefully and answer



- Find the average number of admissions taken by school A from year 2017 to 2021.
- What is the ratio of number of admissions taken (b) by school A to that by school B in years 2018, 2019 and 2021 altogether?

<b>(a)</b>		<b>(b)</b>		
A.	74	21:19		
B.	38	18:17		
C.	71	18:17		
D.	38	23:21		

47. Read the given statements carefully and select the correct option.

Statement-I : If  $3m - 2 = \frac{6}{5}m + 1$ , then the value of 3m is 5.

Statement-II : A number m is 5 less than three times of the number n. If the value of m is 49, then the value of n is 16.

45. In an examination, the maximum marks obtained is 3 more than 5 times the minimum marks obtained. If the maximum marks obtained is 24, then form the equation which will calculate the minimum marks.

- 24 = 5x + 3Β.
- C. 24x + 3 = 5
- D. None of these

# ACHIEVERS SECTION

- Both Statement-I and Statement-II are true. A.
- B. Both Statement-I and Statement-II are false.
- C. Statement-I is true but Statement-II is false.
- Statement-I is false but Statement-II is true. D.
- 48. Match the following and select the correct option.

Column I  
(P) If 
$$(16)^{2x+\frac{3}{2}} = (8)^{\frac{2x}{3}+\frac{19}{6}}$$
, (i)  $\frac{1}{(3)^2}$   
then  $x =$ ...  
(Q)  $\frac{5^2 \times 35^2 \times 9^0}{49 \times 125 \times 45} =$ ...  
(ii)  $2^0 \times 2^1$ 

(R) 
$$(-1)^4 - (-1)^5 =$$
 (iii)  $\frac{7}{2^2 \times 3}$ 

- $(P) \rightarrow (iii); (Q) \rightarrow (ii); (R) \rightarrow (i)$ A.
- B.  $(P) \rightarrow (ii); (Q) \rightarrow (i); (R) \rightarrow (iii)$ C.
- $(P) \rightarrow (iii); (Q) \rightarrow (i); (R) \rightarrow (ii)$ D.
- $(P) \rightarrow (i); (Q) \rightarrow (ii); (R) \rightarrow (iii)$
- 49. Read the given statements carefully and state 'T' for true and 'F' for false.
  - In a shop, there are 1500 oranges. If 45% of the (i) oranges are rotten, then the number of rotten oranges is 675.
  - (ii) In a school, if 35% of the students are girls and 260 students are boys, then number of girls in the school is 150.
  - (iii) 80% of 5 is 4.

	(i)	(ii)	(iii)
A.	Т	Т	F
B.	Т	F	Т
C.	F	Т	Т
D.	F	F	Т

IMO | Class-7 | Set-A | Level 1 | SQF

Π

50. Answer the following questions and select the correct option.		to PQ is 4 cm, then find the heigh to QR.		, then find the height correspo <sub>ndin</sub>	
				(a)	(b)
	(a)	A wire of length 352 cm is bend to form a circle.	А.	9896 cm <sup>2</sup>	8 cm
		What is the area of the circle formed?	В.	6844 cm <sup>2</sup>	6 cm
	(b)	A parallelogram PORS has two sides PQ and QR	C.	6844 cm <sup>2</sup>	8 cm
		are 14 cm and 8 cm. If the height corresponding	D.	9856 cm <sup>2</sup>	7 cm

SPACE FOR ROUGH WORK



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