

Inspiring Young Minds Through Knowledge Olympiads

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

Name:	
Section:	Roll No.:
Contact No.	

Total Questions: 50 Time: 1 hr.

CLASS ·5



SET-A

Guidelines for the Candidate

- 1. You will get additional ten minutes to fill up information about yourself on the OMR Sheet, before the start of the exam.
- 2. Write your Name, School Code, Class, Section, Roll No. and % of marks/grade in last class clearly on the OMR Sheet and do not forget to sign it.
- 3. The Question Paper comprises four sections:

Logical Reasoning (15 Questions), Mathematical Reasoning (20 Questions), Everyday Mathematics (10 Questions) and Achievers Section (5 Questions)

Each question in Achievers Section carries 3 marks, whereas all other questions carry one mark each.

- 4. All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
- 5. There is only ONE correct answer. Choose only ONE option for an answer.
- 6. To mark your choice of answers by darkening the circles in the OMR Sheet, use **HB Pencil** or **Blue / Black ball point pen** only. E.g.
- Q. 16: Rahul bought 4 kg 90 g of apples, 2 kg 60 g of grapes and 5 kg 300 g of mangoes. The total weight of all the fruits he bought is_____.

A. 11.450 kg

B. 11.000 kg

C. 11.350 kg

D. 11.250 kg

As the correct answer is option A, you must darken the circle corresponding to option A in the OMR Sheet.



- 7. Rough work should be done in the blank space provided in the booklet.
- 8. Return the OMR Sheet to the invigilator at the end of the exam.
- 9. Please fill in your personal details in space on top of this page before attempting the paper.

LOGICAL REASONING

- 1. If 'wall' is called 'window', 'window' is called 'door', 'door' is called 'floor' and 'floor' is called 'ventilator', then what will a person stand on?
 - A. window
 - B. wall
 - C. floor
 - D. ventilator
- 2. From his house, Samrath went 15 km to the North. Then he turned West and covered 10 km. Then, he turned South and covered 5 km. Finally, turning to East, he covered 10 km. In which direction is he from his house?
 - A. East
 - B. West
 - C. North
 - D. South
- 3. Which of the following words CANNOT be formed from the letters of the given word?

THERMOLYSIS

- A. LOITER
- B. LORIS
- C. LOTUS
- D. SISTER
- 4. Trishu knows more than Sidak. Kavleen knows as much as Mini. Mohit knows only less than Samrath. Sidak knows more than Mini but less than Mohit. Who is the most knowledgeable person amongst all?
 - A. Trishu
 - B. Kavleen
 - C. Sidak
 - D. Samrath
- 5. Which of the following Venn diagrams best depicts the relationship amongst, "Travellers, Train and Bus"?
 - A. (









- 6. Select the odd one out.
 - A. VUXY
 - B. FEHI
 - C. JILM
 - D. HGIK

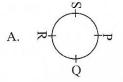
7. Select the number from the options that will complete the given series.

- A. 12
- B. 13
- C. 14
- D. 15
- 8. The given table shows the possible food choices for lunch. How many different types of lunch can be made each including 1 type of soup, 1 type of sandwich and 1 type of salad?

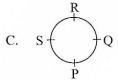
Lunch Choices					
Soup	Sandwich	Salad			
Chicken	Cheese	Vegetable			
Tomato	Paneer	Fruit			

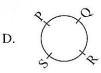
- A. 2
- B. 3
- C. 6
- D. 8
- The given diagram shows the original position of a wheel. Which of the following diagrams shows the correct position of the wheel after it has been turned
 - $2\frac{1}{8}$ turns to the left?











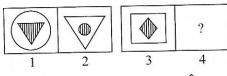
10. Study the given arrangement carefully.

1 A F 3 D U K J 9 R B 2 E K L 8 G P

Which of the following is eighth to the right of seventh letter from the left end in the above arrangement?

- A. F
- B. P
- C. L
- D. 2

11. There is a certain relationship between figures 1 and 2. Establish the similar relationship between figures 3 and 4 by selecting a figure from the options which will replace the (?) in figure 4.











12. Select a figure from the given options which will replace the (?) to form the series as established by the problem figures.

Problem Figures



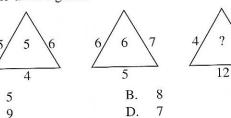




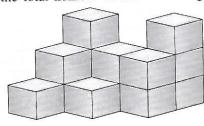




13. Find the missing number, if same rule is followed in all the three figures.



14. Find the total number of cubes in the given figure.



A. 13 C. 15

A.

C.

- B. 14D. 16
- 15. Select a figure from the options in which Fig.(X) is exactly embedded as one of its part.









MATHEMATICAL REASONING

6. The given figure is made up of identical squares. The total area of the figure is 576 cm². What is the perimeter of the figure?



- A. 320 cm
- B. 160 cm
- C. 240 cm
- D. 200 cm
- 17. The value of 5 tens, 5 tenths and 15 hundredths is the same as _____.
 - A. $50 + \frac{65}{10}$
 - B. $50 + \frac{5}{100} + \frac{15}{1000}$

- C. 50 + 0.565
- D. 50 + 0.6 + 0.05
- 18. Which of the following options shows the same property between a rectangle and a square?
 - A. Both have only 1 pair of parallel lines.
 - B. Both have all the angles of measure 90°.
 - C. Diagonals cut each other perpendicularly.
 - D. Both have all sides of equal length.
- 19. How many of the following alphabets has atleast one line of symmetry?

ACDFGHIL

- A. 4
- B. 5
- C. 3
- D. 6

20. Using all the given digits, form the greatest possible 7-digit even number, if repetition of digits is allowed.

9 3 0 8

- 9830000 A.
- 9998830 B.
- C. 9988330
- D. 9999830
- 21. A cricket stadium manager counted the number of matches held in each month.

Matches held				
Months	Number of matches			
August	XCIV			
September	LXXXVI			
October	XCIX			
November	CVI			

In which month, the stadium had the lowest number of matches?

- A. August
- В. September
- C. October
- November
- Which of the following options is CORRECT for the 22. fraction of shaded parts in figures I and II?

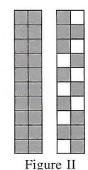






Figure I

- I > IIA.
- II > IB.
- C. I = II
- Can't be determined
- weighs 9 kg 900g, then find the weight 23.

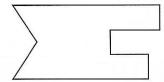


- 1500 g A.
- В. 1650 g
- C. 1800 g
- 1000 g D.

- 24. Subtract 65 minutes from the sum of 145 minutes and 1 hour 20 minutes. The answer is _
 - 165 mins A.
 - 2 hrs 40 mins B.
 - C. 215 mins
 - 3 hrs 40 mins D.
- What is the missing number in the box?

600.051 = 600 ++0.001

- 0.005 A.
- 0.05 В.
- C. 0.5
- 5 D.
- 26. Four girls each made a statement about the given figure.



Sanchi: "I can see 6 pairs of perpendicular lines".

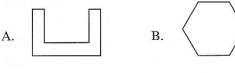
Trishika: "There are 7 angles in the figure".

: "There is only one pair of parallel lines".

Mini : "6 of the angles are less than a right angle".

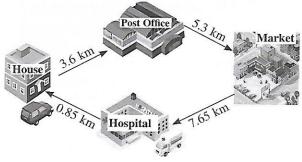
Which girl made the CORRECT statement?

- Sanchi
- Trishika B.
- C. Sidak
- Mini D.
- 27. What is the difference in the place value of the digi 8 and 6 in the numeral 8962321?
 - A. 7994000
 - В. 7904000
 - C. 7960000
 - 7940000
- Which of the following shapes has more than 1 line of symmetry?

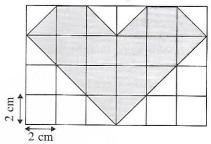




29. Mohit cycled from his house to the post office, then to the market, then to the hospital and then he went to his house. The distances are marked in the given figure. What is the total distance covered by Mohit?

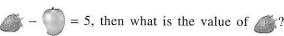


- A. 12.5 km
- B. 17.4 km
- C. 9.53 km
- D. 10.3 km
- √30. The given figure is made up of identical squares. Find the area of the shaded region.



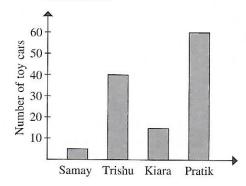
- A. 50 cm^2
- B. 54 cm^2
- C. 58 cm²
- D. 52 cm^2
- 31. 28845 is written in words as _____
 - A. Twenty eight thousand eight hundred and forty five.
 - B. Twenty thousand eighty eight hundred and forty five.
 - C. Two thousand eight hundred and five.
 - D. Two hundred and eighty eight and forty five.

- 32. Sum of factors of 78 is ____
 - A. 168
 - B. 170
 - C. 167
 - D. 189
- 33. If + + + = 230 and



- A. 70
- B. 75
- C. 65
- D. 80

Direction (34-35): The given graph shows the number of toy cars some children have.



- 34. _____has thrice as many toy cars as the total number of toy cars Samay and Kiara have.
 - A. Trishu
 - B. Kiara
 - C. Pratik
 - D. Samay
- 35. If 3 toy cars are sold for ₹48, how much will the children earn if they sell all their toy cars?
 - A. ₹1720
 - B. ₹1920
 - C. ₹1900
 - D. ₹1860

EVERYDAY MATHEMATICS

- 36. Golu's toothbrush is 14.5 cm long and Samaksh's toothbrush is 12.8 cm long. How much longer is Golu's toothbrush than Samaksh?
 - A. 1.7 cm
 - B. 1.6 cm
 - C. 2.7 cm
 - D. 1.9 cm

- 37. Neha weighs 35.4 kg and Manju weighs 42.9 kg. If Aashish, Neha and Manju weigh 117 kg altogether, then what is Aashish's weight?
 - A. 38 kg
 - B. 38.9 kg
 - C. 38.7 kg
 - D. 38.6 kg

- Mrs Priya bought 3 litres of milk in the morning. There was $\frac{5}{8}$ litres left in the evening. How much milk was used during the day?
 - A. $\frac{2}{8}$ litre
- A. $\frac{2}{8}$ litre B. $\frac{17}{8}$ litres C. $\frac{23}{8}$ litres D. $\frac{19}{8}$ litres
- There are 21827 children in school XYZ. Each child pays ₹ 489 per month as the tuition fee. How much money is collected by the school per month?
 - ₹ 1,06,73,403
 - В. ₹ 1,60,73,403
 - C. ₹ 1,60,37,304
 - D. ₹ 1,40,37,403
- The air hostess of Jet Airways reported for duty at 13:30 hours. She completed 8 hours of duty. At what time did her duty get over?
 - A. 22:30 hours
 - В. 20:00 hours
 - C. 19:00 hours
 - 21:30 hours D.
- A rectangular garden is 32 m wide and 48 m long. How much fencing will be needed to enclose the garden? If fencing costs ₹98 per metre, how much will it cost to fence the garden?
 - 160 m, ₹ 15680 A.
 - 180 m, ₹ 15860 B.
 - C. 160 m, ₹ 15000
 - 170 m, ₹ 15600 D.

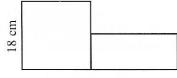
- 42. A tea plucker plucked 4,12,250; 3,34,278; and 2,43,581 tea leaves on three successive days. How many tea leaves did he pluck in all the three days?
 - 9,09,109 A.
 - В. 9,90,109
 - C. 9,00,109
 - D. 9,99,109
- 43. 21,35,680 voters are to be equally distributed among 235 polling booths. How many voters will be there in each polling booth?
 - 9080 A.
 - В. 9800
 - C. 9088
 - D. 8800
- 44. A school van covers a distance of 34.25 km to pick students from their homes in a day. What distance will it cover in 66 days?
 - A. 2160.50 km
 - 3160.50 km B.
 - C. 2260.50 km
 - D. 2006.50 km
- 45. 12685 books were bought for the primary section; 15790 books were bought for the middle section; and 13698 books were bought for the senior section of the school library. What was the total number of books bought for the library?
 - A. 42163
 - 42173 B.
 - C. 42130
 - D. 42193

ACHIEVERS SECTION

The given figure is made up of a square and a rectangle.

The breadth of the rectangle is $\left(\frac{1}{3}\right)^{rd}$ the length of

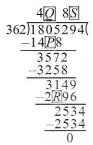
the edge of the square. If the area of the whole figure is 384 cm², find the length of the rectangle.



- A. 12 cm C. 10 cm
- В. 8 cm
- D. 9 cm
- Alisha is thinking of a 5-digit even number. The first digit is 4 more than the smallest odd number. The second digit is a common factor of the numbers 2 and 11. The third digit is the product of the first 2 digits. The sum of the fourth and fifth digit is 9. The fifth

digit is a multiple of 6. What is the number Alisha thinking of?

- A. 41436
- B. 41463
- 51536
- 51563
- 48. Find the value of $\left(\frac{Q+R \div P}{22}\right) \times S$.



- A. 6.9
- 3.5
- C. 4.5

- 49. Read the following statements and select the correct option.
 - **Statement 1:** The value of CM CD + CVII is 607.
 - **Statement 2 :** Symbol C can be added to every Roman symbol, but it can be subtracted from D and M only.
 - A. Statement 1 is true and Statement 2 is false.
 - B. Statement 1 is false and Statement 2 is true.
 - C. Both the Statement 1 and Statement 2 are true.
 - D. Both the Statement 1 and Statement 2 are false.

- 50. Find P, Q, R and S in the given statements.
 - (i) Commas are inserted in a number after each P.
 - (ii) Place value of a digit becomes <u>Q</u> times as it moves from ten's place to thousand's place.
 - (iii) There is no roman numeral to represent <u>R</u>.
 - (iv) 100 + 100 + 100 in roman numerals is written as

	P	Q	R	\mathbf{S}
A.	Digit	100	0	CCC
В.	Digit	10	100	XXX
C.	Period	1000	10	MMM
D	Period	100	0	CCC

SPACE FOR ROUGH WORK









SCIENCE OLYMPIAD





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