

KOTHARI INTERNATIONAL SCHOOL, NOIDA
HALF YEARLY EXAMINATION, SESSION: 2025-26
GRADE: 6 SUBJECT: MATHEMATICS
SET: A SECTION A (OBJECTIVE)

DAY & DATE: TUESDAY, 16th SEPTEMBER 2025

MAXIMUM MARKS: 20

TIME ALLOTTED: 30 MINUTES

NAME: _____

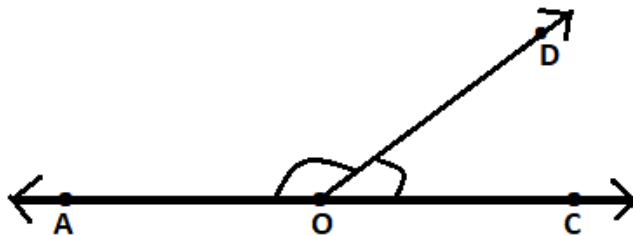
ROLL NO: _____

GENERAL INSTRUCTIONS:

- i) This question paper consists of 4 pages and 20 questions.*
- ii) Question Nos. 1 to 20 carry 1 mark each.*
- iii) It is compulsory to attempt all the questions.*
- iv) Read the question paper carefully and then attempt it.*

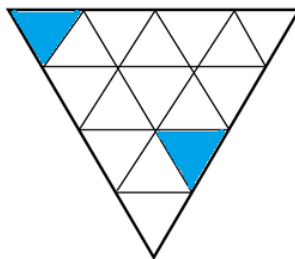
SECTION A

- Q1.** The sequence $1+1, 1+2+1, 1+2+4+1, 1+2+4+8+1, \dots$ is the sequence of _____ (1)
a) even numbers b) powers of 2 c) square numbers d) powers of 3
- Q2.** In the given figure, points A, O and C lie on the same line. (1)



What is the sum of the measures of angle AOD and angle DOC?

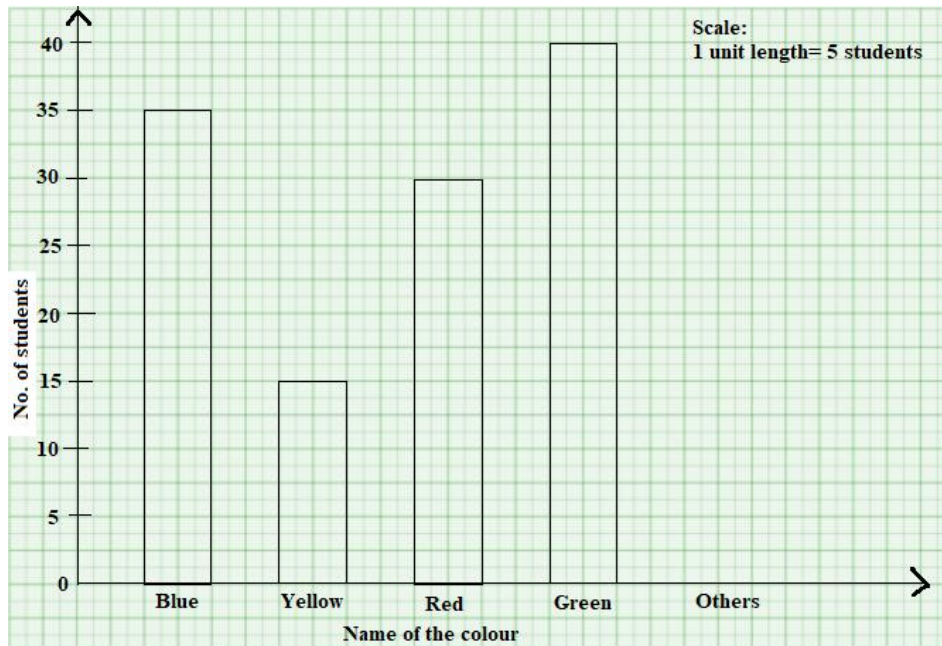
- a) 90° b) 180° c) 270° d) 360°
- Q3.** Priyanka shaded two triangles in the given figure. (1)



How many more such triangles does Priyanka need to shade so that three-fourth of the whole figure is shaded?

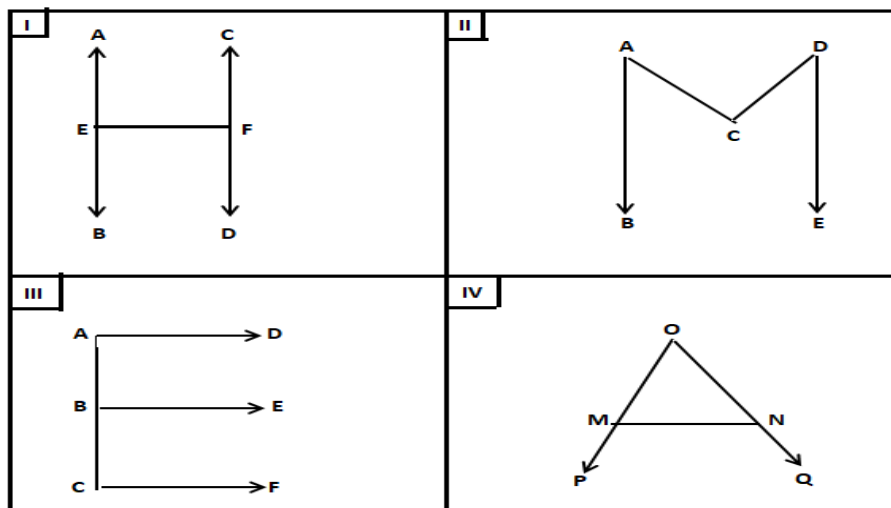
- a) 8 b) 9 c) 10 d) 12
- Q4.** What are the next two numbers in the pattern below? (1)
8, 10, 14, 20, _____, _____
a) 28, 30 b) 30, 28 c) 20, 30 d) 28, 38

- Q5. In a survey, 140 students of class 6 were asked their favourite colours. The result was (1)
displayed in the given bar graph.



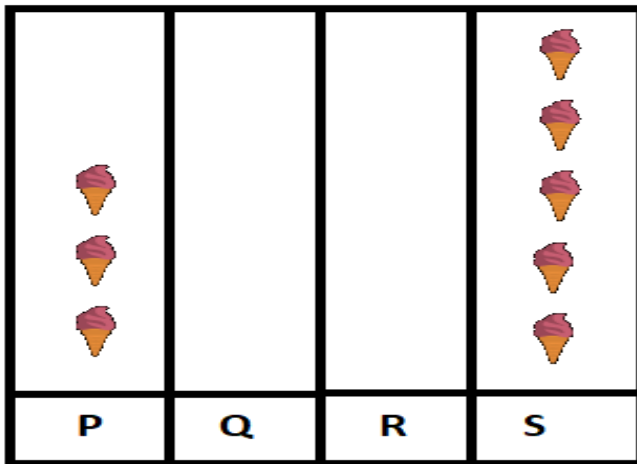
How many students were included under OTHERS?

- a) 25 b) 20 c) 10 d) 15
- Q6. Which one of the following fractions is not equivalent to $\frac{5}{7}$? (1)
- a) $\frac{15}{21}$ b) $\frac{10}{14}$ c) $\frac{35}{21}$ d) $\frac{20}{28}$
- Q7. Out of the given four figures, identify the two that have the equal number of rays. (1)



- a) I and III b) II and III c) III and IV d) II and IV

- Q8. The incomplete pictograph shows the number of ice-creams bought by four boys. (1)



represents 10 ice-creams

The total number of ice-creams bought was 150. Q and R bought the same number of ice-creams. How many ice-creams did Q buy?

- a) 25 b) 50 c) 70 d) 35
- Q9. 23, x, 31, 37, 41, y, 47 is a list of prime numbers arranged in an increasing order. Find the value of $x + y$. (1)
- a) 68 b) 70 c) 72 d) 74
- Q10. Given below is a Tally marks which shows the number of sweets each child has: (1)

Name of the Child	No. of sweets
Kiran	
Anu	
Raju	
Veena	

The total number of sweets which the four children have is 30. How many sweets does Anu have?

- a) 2 b) 4 c) 6 d) 8

- Q11. Assertion: $\frac{4}{5}, \frac{8}{10}, \frac{12}{15}, \frac{16}{20}$ are equivalent fractions. (1)
- Reason: Two or more fractions having the same value or representing the same part of a whole are called equivalent fraction.
- a) Both A and R are true and R is the correct explanation of A
 b) Both A and R are true but R is not the correct explanation of A
 c) A is true but R is false
 d) A is false but R is true
- Q12. Assertion (A) : The number 9 and 35 are co-prime. (1)
- Reason (R) : A number is said to be prime, if it has only two factors 1 and the number itself.
- a) Both A and R are true and R is the correct explanation of A
 b) Both A and R are true but R is not the correct explanation of A
 c) A is true but R is false
 d) A is false but R is true
- Q13. If $\triangle \triangle \triangle \triangle \triangle$ stands for 40, then $\triangle \triangle \triangle$ stand for _____ . (1)
- Q14. The sum of smallest odd prime number with smallest even composite number is _____ . (1)
- Q15. The grip size of a tennis racquet is $11\frac{9}{80}$ cm. The size of a racquet express in improper fraction as _____ . (1)
- Q16. The sequence we get when we start adding up Odd numbers is _____ . (1)
- Q17. The missing digit 'c' that would make the number 12c76 divisible by 3 is _____ . (1)
- Q18. At 5:20 a.m., an obtuse angle is formed between the two hands of a clock. (True/False) (1)
- Q19. A line segment \overline{TP} is bisected at I. The measure of \overline{TI} is $\frac{1}{2} \overline{TP}$. (True/False) (1)
- Q20. We get the even number sequence when we start with 1 and keep adding 2 each time. (True/False) (1)