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

**DAY & DATE: TUESDAY, 16th SEPTEMBER 2025**
**MAXIMUM MARKS: 20** **TIME ALLOTTED: 30 MINUTES**
**NAME: _____** **ROLL NO: _____**

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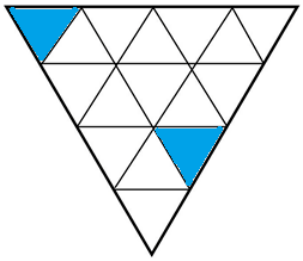
***GENERAL INSTRUCTIONS:***
***i) This question paper consists of 4 pages and 20 questions.***
***ii) Question Nos. 1 to 20 carry 1 mark each.***
***iii) It is compulsory to attempt all the questions.***
***iv) Read the question paper carefully and then attempt it.***

**SECTION A**

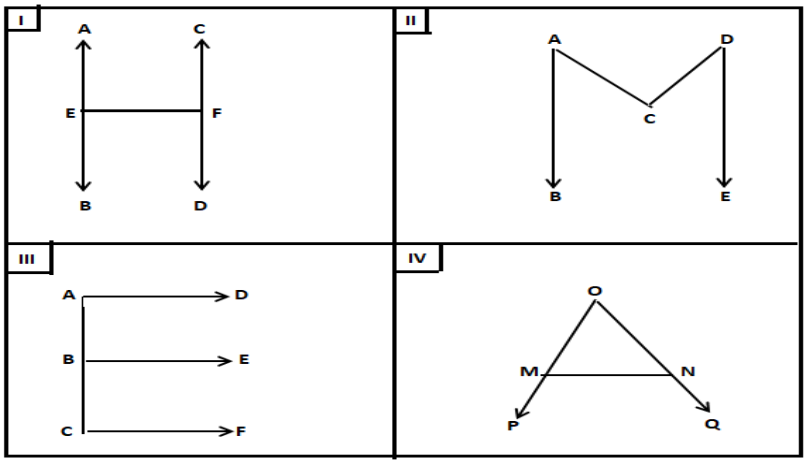
**Q1. Priyanka shaded two triangles in the given figure.** **(1)**



**How many <u>more</u> 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**

**Q2. 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**

**Q3. 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**

**Q4.** **Given below is a Tally marks show the number of sweets each child has.** **(1)**

| Name of the Child | No. of sweets |
|---|---|
| Kiran | 𝍸 \|\|\| |
| Anu | |
| Raju | 𝍸 \|\|\| |
| Veena | 𝍸 𝍸 |

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

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

**Q5.** **Which of the following is true?** **(1)**

**i) Every mixed fraction can be written as a proper fraction.**

**ii) Every mixed fraction can be written as an improper fraction.**

**iii) A proper fraction can be written as a mixed fraction.**

**iv) A proper fraction can be written as an improper fraction.**

**a) only iii** **b) only i** **c) only iv** **d) only ii**

**Q6.** **The sequence 1+1, 1+2+1, 1+2+4+1, 1+2+4+8+1, ……. is the sequence of _____** **(1)**

**a) Even numbers** **b) powers of 2** **c) square numbers** **d) powers of 3**

**Q7.** **If 'class 4' raised ₹200 and 'class 6' raised ₹300, how much money does one ⬭ represent?** **(1)**

| AMOUNT RAISED BY EACH CLASS | |
|---|---|
| **Class** | **Amount raised** |
| 3 | ⬭ ⬭ ⬭ ⬭ ⬭ ⬭ |
| 4 | ⬭ ⬭ ⬭ ⬭ |
| 5 | ⬭ ⬭ ⬭ ⬭ ⬭ ⬭ ⬭ ⬭ |
| 6 | ⬭ ⬭ ⬭ ⬭ ⬭ ⬭ |

**a) ₹50** **b) ₹40** **c) ₹10** **d) ₹100**

**Q8.** **Assertion: The number 9 and 35 are co-prime.** **(1)**

**Reason: 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**

**Q9.** **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**

**Q10.** **Read the following cases and choose the correct statement/s.** **(1)**

**Statement I: A right angle is one-fourth of a straight angle.**
**Statement II: A reflex angle is equal to three right angles.**
**Statement III: A complete angle is equal to two straight angles.**

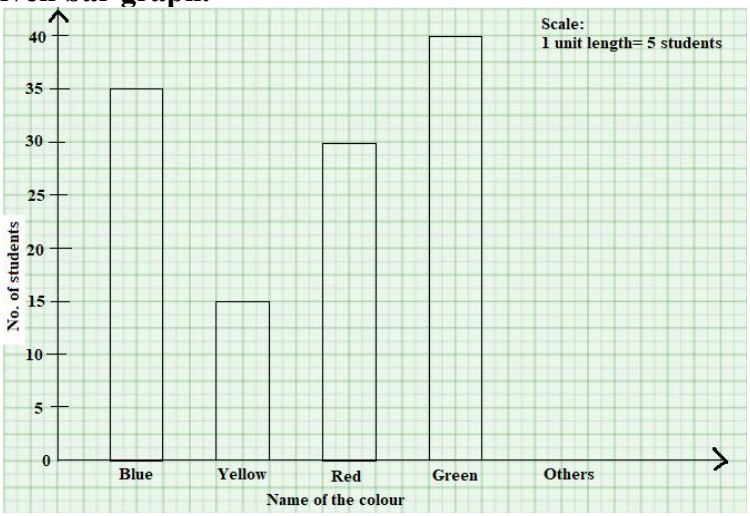
**a) Only I** **b) Only II** **c) Only II & Only III** **d) Only III**

**Q11.** **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**

**Q12.** **In a survey, 140 students of class 6 were asked their favourite colours. The result was displayed in the given bar graph.** **(1)**




**How many students were included under OTHERS?**
**a) 25** **b) 20** **c) 10** **d) 15**

**Q13.** **The grip size of a tennis racquet is** $11\frac{9}{80}$ **cm. The size of a racquet express in improper fraction as _____.** **(1)**

**Q14.** **The sequence we get when we start adding up counting number is _____.** **(1)**

**Q15.** **The missing digit 'c' that would make the number 12c76 divisible by 3 is _____.** **(1)**

**Q16.** **If one symbol of**  **represents 10 bottles of coke then _____ symbols are required to represent 45 bottles of coke.** **(1)**

**Q17.** **A is the $5^{th}$ prime number. B is the $7^{th}$ prime number. Then B – A is _____.** **(1)**

**Q18.** **A line segment $\overline{TP}$ is bisected at I. The measure of $\overline{TI}$ is $\frac{1}{2}$ $\overline{TP}$. (True/False)** **(1)**

**Q19.** **We get cube numbers when we add two hexagonal numbers. (True/False)** **(1)**

**Q20.** **The angle formed between the hour hand and minute hand at 10:15 is acute angle. (True/False)** **(1)**