

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

DAY & DATE: TUESDAY, 16th SEPTEMBER 2025

MAXIMUM MARKS: 60

TIME ALLOTTED: 2.5 HRS

NAME: _____

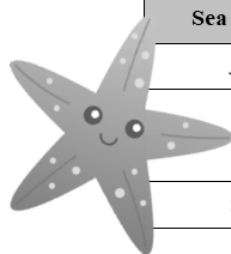
ROLL NO: _____

GENERAL INSTRUCTIONS:

- i). *This question paper consists of 4 pages and 22 questions. All questions are compulsory.*
- ii). *Questions Nos. 1 to 11 carries 2 marks each.*
- iii). *Questions Nos. 12 to 17 carries 3 marks each.*
- iv). *Questions Nos. 18 to 22 carries 4 marks each.*
- v). *Read the question paper carefully and then attempt it.*

SECTION B

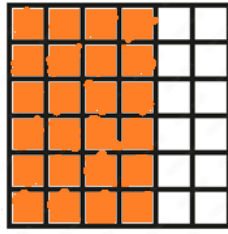
- Q1. Write any two English alphabets which represent perpendicular lines and two more alphabets which represent acute angles. (2)**
- Q2. Melissa had a day out at the beach with her family. She saw various sea creatures and recorded the count of each kind in a table. Draw the frequency distribution table for the same. (2)**



| Sea Creatures | No. of Sea Creatures |
|---------------|----------------------|
| Jelly fish | 12 |
| Crabs | 7 |
| Fish | 15 |
| Seagulls | 10 |
| Starfish | 4 |
| Sea snails | 14 |

- Q3. A sequence is formed by adding consecutive odd numbers: (2)**
- 1
 - $1 + 3 = 4$
 - $1 + 3 + 5 = 9$
 - $1 + 3 + 5 + 7 = 16$
- a) Which type of number pattern does this represent?
- b) What is the 10th number in this sequence?

- Q4. The shaded portion of the picture represents a fraction of the whole. (2)



How many triangles in the group below must be shaded to represent a equivalent fraction? Show it.



- Q5. Draw an angle 145° using protractor. (2)

- Q6. Express the predecessor of the smallest 5-digit number and express it in form of prime factors. (2)

- Q7. Find the values of P and Q in the pattern given below and then find the value of $Q - P$. (2)



- Q8. If one symbol is used to represent 100 flowers. How many symbols will be used to represent 800 flowers? (2)

- Q9. Classify the given angles into acute, right, obtuse, straight and reflex angle. (2)

| | | |
|-------------|-------------|-------------|
| 126° | 228° | 90° |
| 180° | 78° | 360° |

- Q10. Find the sum of all the multiples of 7 between 50 and 80. (2)

- Q11. Write three improper fractions with numerator 13 and arrange them in ascending order. (2)

SECTION C

- Q12. Which is greater among the following: (of means '×' multiplication) (3)

$\frac{1}{4}$ of straight angle or $\frac{1}{3}$ of right angle

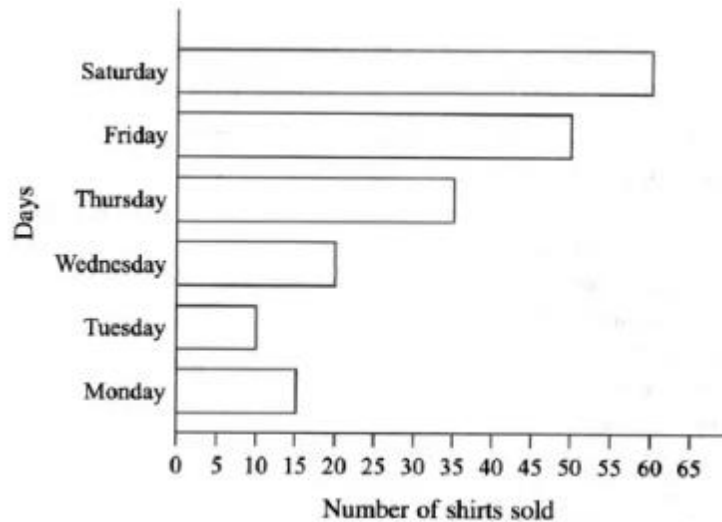
- Q13. A room has its length, breadth and height as 1650cm, 1350cm and 900cm respectively. Find the maximum length to measure all these measurements? (3)

- Q14. Represent the following fractions on the number line: (3)

a) $\frac{7}{12}$ b) $\frac{4}{7}$

- Q15. An apple tree was 24 feet tall in the year 2018. Every year it grew by 2 feet. How tall will it be in the year 2021? Express in the tabular form. (3)

- Q16. Observe the bar graph which is showing the sale of shirts in a readymade shop from Monday to Saturday. (3)

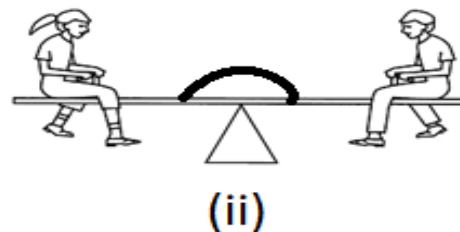
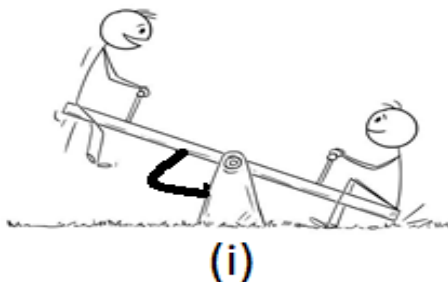


Read the bar graph and answer the following questions.

- What is the scale chosen on the horizontal line representing number of shirts?
 - On which day were the maximum numbers of shirts sold? How many shirts were sold on that day?
 - How many more shirts were sold on Thursday than on Tuesday?
- Q17. On a track for remote-controlled racing cars, racing car A completes the track in 32 seconds, while racing car B completes it in 28 seconds. If they both start at the same time, after how many seconds will they be side by side again? (3)

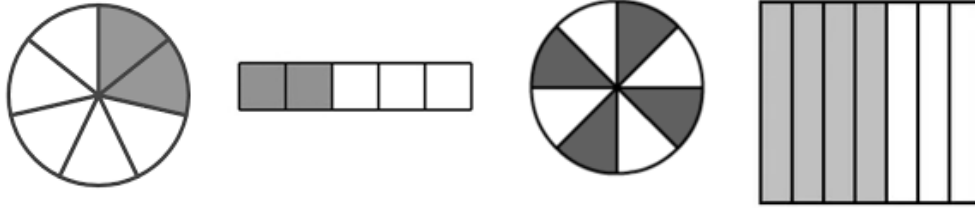
SECTION D

- Q18. a) Two children are sitting on a see-saw. If one side of the see-saw goes down and the other side goes up, different angles are formed with the ground. (2+2)




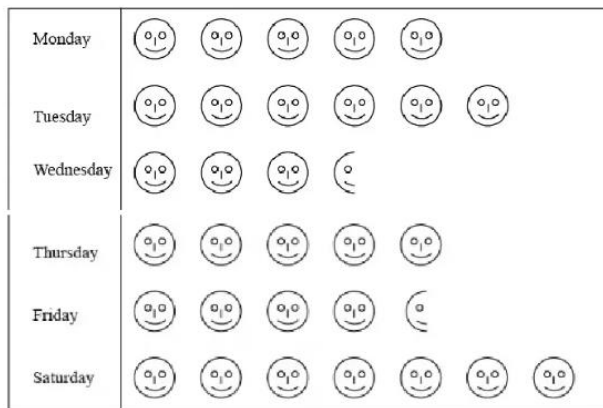
- What type of angle is formed when the see-saw is tilted slightly upward?
 - What type of angle is formed if the see-saw becomes perfectly horizontal with the ground?
- b) How many right angles do you make if you face:
- South and turn clockwise to west
 - East and turn anticlockwise to west

- Q19. Write fractions for the coloured parts of each of the following figures. Identify like and unlike fraction from them. (4)



- Q20. In idli-vada game, children must say “idli” for multiples of 5 and “vada” for multiples of 6. Write the first 12 multiples in the game and mark where will you get “idli-vada.” (4)

- Q21. The number of students present in a class 6 during a week is given below. It is represented by a pictograph where 1  = 6 students. Draw bar graph for the given information. (4)



- Q22. Read the following text carefully and answer the questions that follow: (4)

In a game, players receive cards numbered sequentially from 1 to 20. The cards with odd numbers are red, while those with even numbers are blue. This color-coding system helps distinguish between odd and even-numbered cards, adding a visual element to the game play. The sequence of numbers on the cards is straightforward, ranging from 1 to 20, ensuring clarity and simplicity for the players.

1. What is the colour of the card with the number 7?
2. How many even numbers are there between 1 and 20?
3. List all the triangular numbers between 1 and 20.
4. List all the square numbers between 1 and 20.