

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

DAY & DATE: TUESDAY, 16th SEPTEMBER 2025

MAXIMUM MARKS: 60

TIME ALLOTTED: 2.5 HRS

NAME: _____

ROLL NO: _____

GENERAL INSTRUCTIONS:

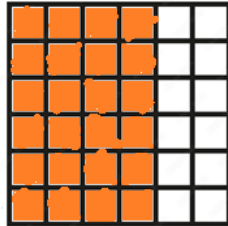
- i). *This question paper consists of 4 pages and 22 questions. All questions are compulsory.*
- ii). *Questions Nos. 1 to 11 carries 2 marks each.*
- iii). *Questions Nos. 12 to 17 carries 3 marks each.*
- iv). *Questions Nos. 18 to 22 carries 4 marks each.*
- v). *Read the question paper carefully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

SECTION B

Q1. Find the values of P and Q in the pattern given below and then find the value of Q – P. (2)



Q2. The shaded portion of the picture represents a fraction of the whole. (2)



How many of the triangles in the group below must be shaded to represent a fraction with the same value? Show it.



Q3. Write any two English alphabets which represent perpendicular lines and two more (2)

alphabets which represent acute angles.

Q4. Express the predecessor of the smallest 5-digit number and express it in form of prime (2)
factors.

Q5. Write three improper fractions with numerator 19 and arrange them in descending order. (2)

Q6. Classify the given angles into acute, right, obtuse, straight and reflex angle. (2)

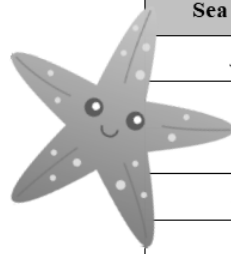
126°	228°	90°
180°	78°	360°

Q7. Draw an angle 145° using protractor. (2)

Q8. Match the following. (2)

Column A	Column B
i) 1, 3, 9, 27, 81,	a) Triangular Numbers
ii) 1, 2, 3, 5, 8, 13,	b) Odd Numbers
iii) 1, 3, 6, 10, 15, 21,	c) Hexagonal numbers
iv) 1, 3, 5, 7, 9, 11, 13, ...	d) Powers of 3
	e) Virahanka Numbers
	f) Powers of 2

Q9. 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 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

Q10. If one symbol is used to represent 100 flowers. How many symbols will be used to represent 800 flowers? (2)

Q11. Find the sum of all the multiples of 7 between 50 and 80. (2)

SECTION C

Q12. 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)

Q13. Represent the following fractions on the number line: (3)

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

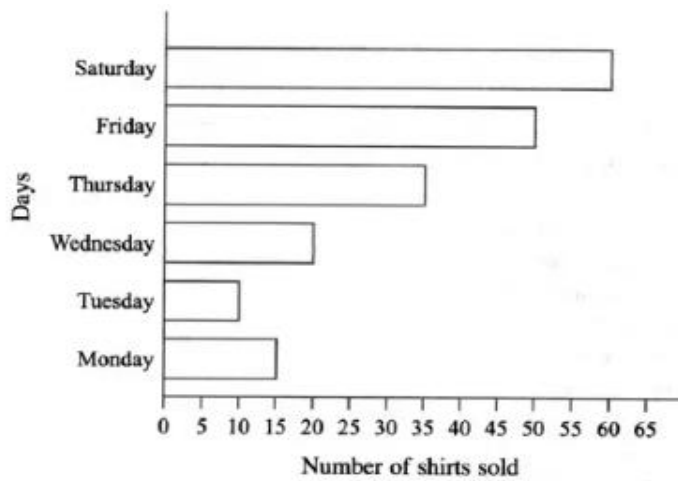
b) $\frac{4}{7}$

Q14. Which is greater among the following: (of means '×' multiplication) (3)

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

Q15. A room has its length, breadth and height as 1650cm, 1350cm and 900cm respectively. Find the maximum length to measure all these measurements? (3)

- Q16. 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)
- Q17. Observe the bar graph which is showing the sale of shirts in a readymade shop from Monday to Saturday. (3)

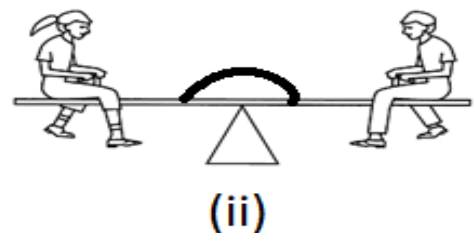
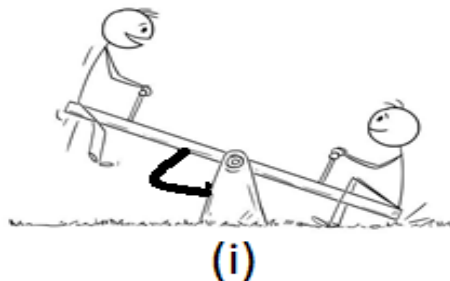


Read the bar graph and answer the following questions.

- 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?

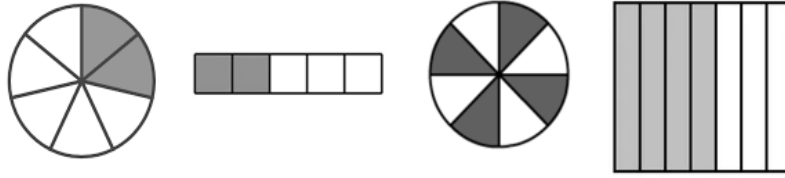
SECTION D

- Q18. In idli-vada game, children must say “idli” for multiples of 5 and “vada” for multiples of 6. (4)
Write the first 12 multiples in the game and mark where will you get “idli-vada.”
- Q19. 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. (4)



- 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

- Q20. Write fractions for the coloured parts of each of the following figures. Identify like and unlike fraction from them. (4)**



- Q21. 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.

- Q22. The tally chart shows the items sold during the weekends. Use the information from the tally chart and draw a bar graph for the given information. (4)**

Food Items	Tally Marks
Fried rice	
Pizza	
Cake	
Burger	
Ice-cream	