

Instructions:

- Read the questions carefully.
- All working, including rough work, must be shown clearly.
- Go through the whole answer sheet one more time before submitting the paper.

**I. Fill in the blanks:**

1. A quadrilateral having one and only one pair of opposite sides are parallel is called a \_\_\_\_\_.
2. In a polygon Exterior angle + Adjacent interior angle = \_\_\_\_\_.
3. The six lateral faces of a hexagonal prism are \_\_\_\_\_.
4. The line of symmetry of an angle is the \_\_\_\_\_ of the angle.
5. A parallelogram has 2 lines of symmetry.

**II. True or False:**

1. Adjacent sides of a rhombus are equal.
2. All leaders of India is a set.
3. In the ratio  $a : b$ ,  $b$  is called the consequent.
4. A polygon of  $n$  sides can be divided into  $(n-1)$  triangles.
5. A circle has infinite number of lines of symmetry.

**III. Match the following:**

Column A

Column B

- |                     |                     |
|---------------------|---------------------|
| i) 16%              | a) No symmetry      |
| ii) Null set        | b) Tetrahedron      |
| iii) 5:7            | c) 4:25             |
| iv) pyramid         | d) $\Phi$ or $\{\}$ |
| v) Scalene Triangle | e) 30:42            |

**IV. One word Answer:**

1. Write the set builder form for  $A = \{1, 2, 3, 6, 9, 18\}$ . -  $A = \{x \in \mathbb{N} \mid x \text{ is a factor of } 18\}$
2. Write difference between equal sets and equivalent sets.
3. What is pictograph? quo 4. Solve  $3x-5=4$  and find the root.
5. Draw lines of symmetry for a rectangle. +

**V. Answer the following**

1. Describe the following set in roster form:  
 $A = \{x : x \text{ is a natural number, } x \text{ is a multiple of } 7, x < 60\}$
2. Find the ratio of 750g to 2 Kg in simplest form.
3. If the cost of 15 bananas is 84 rupees. How many can be brought for 140 rupees?
4. What is the length whose 16% is 36 m?
5. Find the solution of  $2x + 12 = 3 - x$  using the rule of transposition?
6. Three angles of a quadrilateral are  $125^\circ$ ,  $45^\circ$  and  $100^\circ$ . Find the fourth angle?
7. Find the sum of all the interior angles of a 18-sided polygon?
8. The area of a rectangle is  $768\text{cm}^2$ . Its breadth is 12cm find its length?
9. The number of children in ten families is given as 2, 1, 2, 1, 3, 3, 2, 3, 2, 1. Find the number of families having less than 3 children?
10. In a proportion 1st, 3rd and 4th terms are 51, 81 and 108 respectively. Find the second term?

**VI. Answer the following**

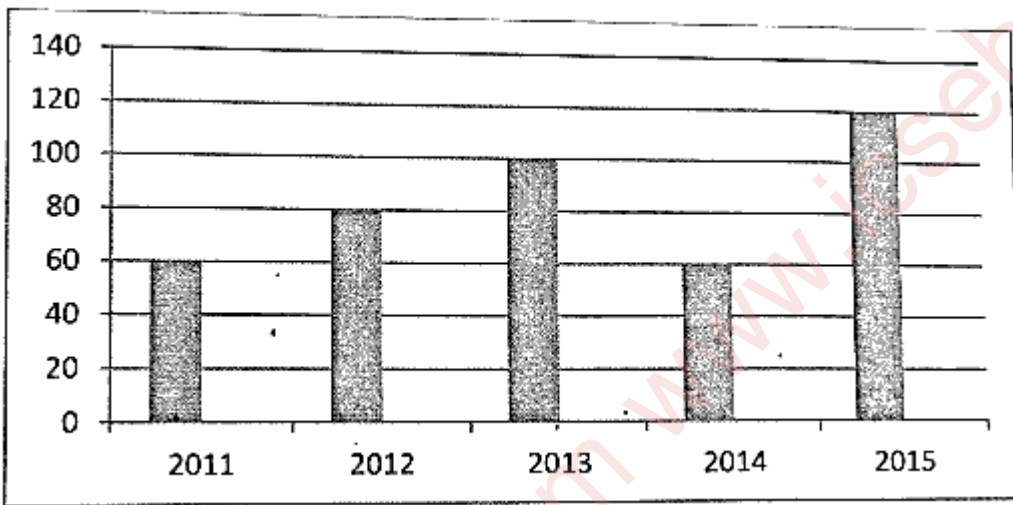
1. A rectangular hall is 32m long and 24m wide. How many marble slabs of size 50cm x 30cm are needed to cover the floor of the hall?
2. Find the cost of cultivating a rectangular field 55m long and 22m wide at 35 rupees per  $\text{m}^2$ . Also find the cost of fencing at the rate 28 per metre?
3. Find the value of :
  - a. 15% of 75
  - b. 12.5% of 3kg
  - c. 140% of 45 liter.

4. A car travel 195Km in 3 hours. How long will it take to travel 325Km?
5. Income of Ramu and Babu are in the ratio 7:4. If Babu earns rupees 16800 per month, what is the total earning of Bamu and Babu in a month?

**VII. Construct a pictograph for the following data:**

Subject	English	Hindi	Mathematics	Social Science	Science
Students passed	15	10	5	25	35

**VIII. Read the Column Graph and answer the following questions:**



(Hint: Year VS Food grains (million tons) is given in the Graph)

1. What was the production of food grains in 2014?
2. In which year the production was maximum?
3. Find the percentage increase of production in 2015?
4. What information is represented by the column graph?
5. After which year there was a sudden fall in the production?

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