

**CBSE Board**  
**Class VII Mathematics**  
**Term II**  
**Sample Paper - 1**

Time: 2 hour

Total Marks: 50

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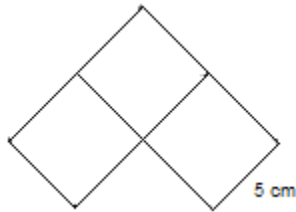
**General Instructions:**

1. All questions are **compulsory**.
  2. The question paper consists of **28** questions and it is divided into **three sections** A, B and C.
  3. **Section A** comprises of **10** questions carrying 1 mark each.
  4. **Section B** comprises of **14** questions carrying 2 marks each.
  5. **Section C** comprises of **4** questions carrying 3 marks each.
  6. Question numbers **1 to 10** in **Section A** are multiple choice questions where you are to select **one** correct option out of the given four.
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**Section A**  
**(Questions 1 to 10 carry 1 mark each)**

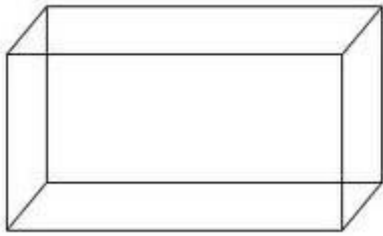
1. If there is a discount of 40% on an article costing Rs 7000, then the price after discount is:  
A. Rs 4500  
B. Rs 4200  
C. Rs 4400  
D. Rs 4600
2. Which of the following is the greatest rational number?  
A.  $\frac{15}{7}$   
B.  $\frac{15}{8}$   
C.  $\frac{15}{10}$   
D.  $\frac{15}{12}$
3. To construct an equilateral triangle, the minimum requirement is:  
A. Measure of one angle  
B. Measure of one side  
C. Measure of two sides  
D. Measure of one side and one angle

4. The figure below is made up of 3 squares of sides 5 cm. What is the perimeter of the figure?

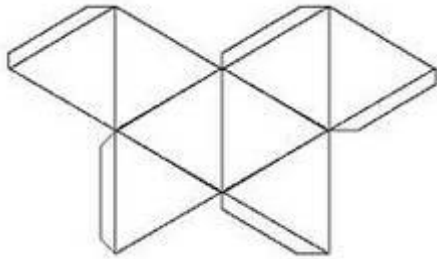


- A. 15 cm  
B. 30 cm  
C. 40 cm  
D. 50 cm
5. Choose the constant term in the expression " $x^4 - 6x^2 + 2x - 3$ ".
- A. 1  
B. -6  
C. 3  
D. -3
6.  $a \times a \times a \times a \times y \times y \times y \times y \times z \times z$  can be written as
- A.  $a^4y^4z^2$   
B.  $ayz^{10}$   
C.  $ay^8xz^2$   
D.  $ayz^8$
7. Which of the following figure has 7 lines of symmetry?
- A. Regular hexagon  
B. Regular octagon  
C. Regular heptagon  
D. Regular triangle

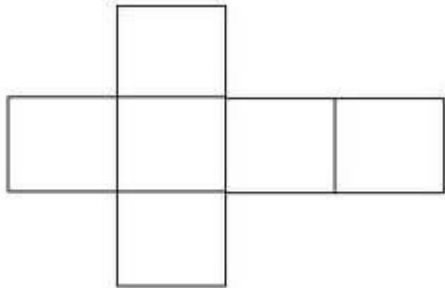
8. Net for the following solid is:



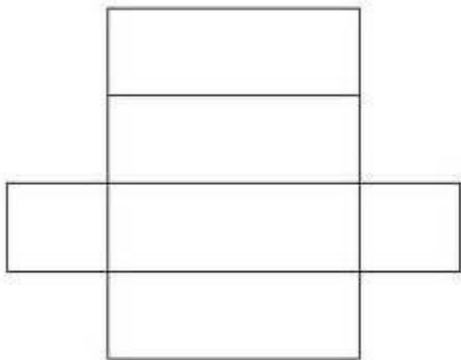
A.



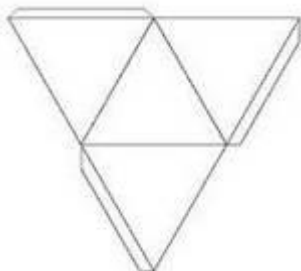
B.



C.



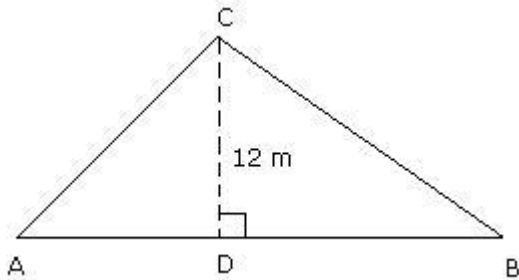
D.



9. A regular hexagon has \_\_\_\_\_ center of rotation.
- A. 1  
B. 2  
C. 3  
D. 4
10. For what value of  $k$ , we have  $7x^2 - 5x + k = -4$ , given that  $x = -2$ ,
- A. 22  
B. -42  
C. -22  
D. 42

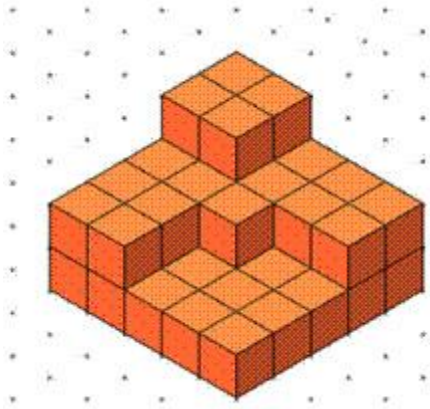
**Section B**  
**(Questions 11 to 24 carry 2 marks each)**

11. A family reduced the consumption of sugar from 10 kg to 8 kg per month due to increase in price. Find the percentage decrease in consumption.
12. Write the rational form of the decimal and represent it on a number line:  
(i) -0.25 (ii) 0.8
13. Is it possible to construct triangles with the following sides?  
(a) 8 cm, 3 cm and 4 cm  
(b) 9 cm, 5 cm and 4 cm.
14. Find AB, if the area of the triangle ABC is  $48 \text{ m}^2$  and the height CD is 12 m.

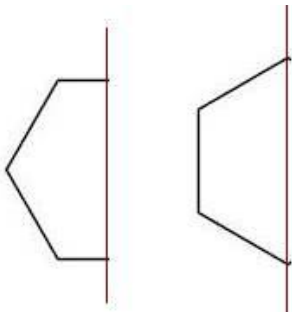


15. Simplify:  $3(a + b) - 2(2a - b) + 4a - 7$ .
16. If  $5^{2x+1} \div 25 = 125$ , find the value of  $x$ .
17. Give an example of an alphabet which has 2 lines of symmetry as well as rotational symmetry of order 2.

18. Count the number of unit cubes in the following solid.



19. Complete the following images whose one half and axis of symmetry is given.



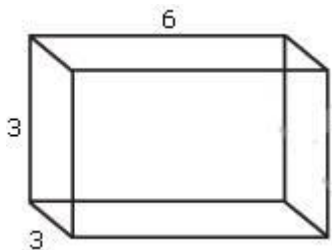
20. Express the following numbers in exponent form.

(i) 343000

(ii) 2048

21. Find the value of expression  $(x + y)^2 - (x - y)^2$ , if  $x = \frac{1}{2}$ ,  $y = \frac{1}{4}$ .

22. Given is an oblique sketch of a cuboid. Draw an isometric sketch for this cuboid.



23. A student has got following marks in five subjects:  
30, 35, 40, 25, 45  
The maximum marks for each subject is 50. Find his percentage of marks.
24. What number must be divided by  $15\frac{5}{4}$  so that the quotient is 15?

**Section C**

**(Questions 25 to 28 carry 3 marks each)**

25. Raju owns a plot which is  $1\frac{1}{3}$  acres in size. If the value of land in his area is Rs 48,000 per acre, what is the value of his plot?
26. Mohan purchased an old scooter for Rs 12000 and spent Rs 2850 on its overhauling. Then, he sold it to his friend Sohan for Rs 13860. How much percent did he gain or lose?
27. Draw an angle ABC of  $60^\circ$  such that BC = 3 cm, through B draw a line parallel to AB.
28. In triangle ABC, AC = 10 cm, BC = 4 cm and AD = 6 cm. Find the length of BL.

