



CREST Mathematics Olympiad (CMO) Worksheet *for* Class 6



Topic

Symmetry and Practical Geometry



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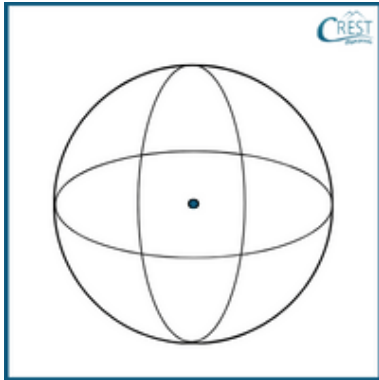
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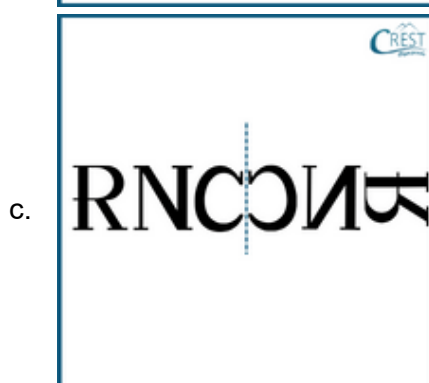
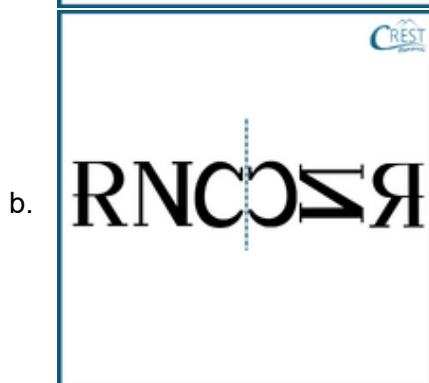
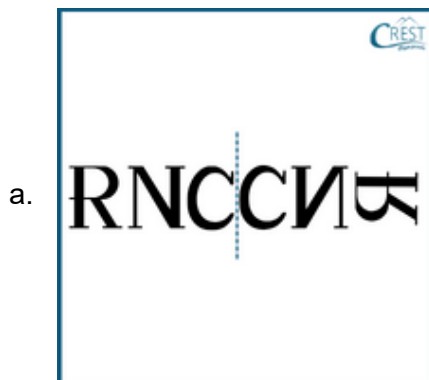
Worksheet on Symmetry and Practical Geometry

1. How many lines of symmetry are there in the given figure?



- a. One line of symmetry
- b. Two lines of symmetry
- c. Three lines of symmetry
- d. Four lines of symmetry

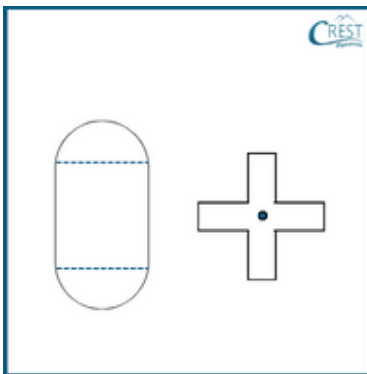
2. Which of the following is mirror-image symmetry?



d.



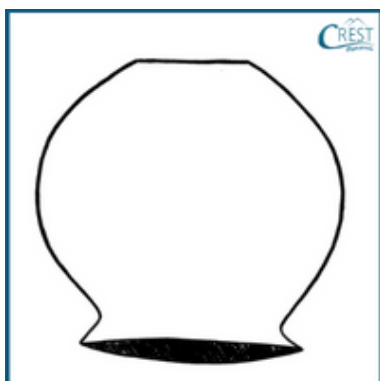
3. What is the difference in the number of lines of symmetry of the given figures?



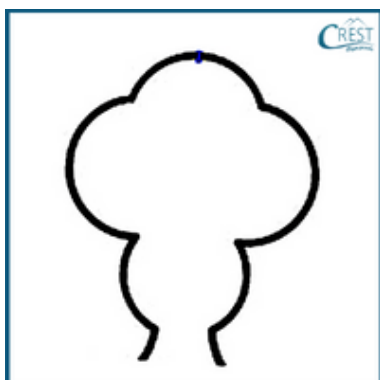
- a. 0
- b. 1
- c. 2
- d. 4

4. Which of the following figures have a horizontal line of reflection symmetry?

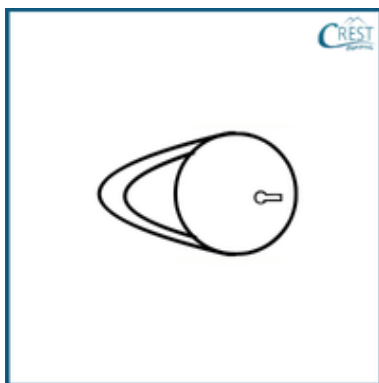
a.



b.



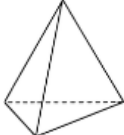
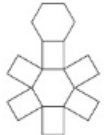
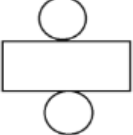
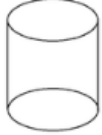
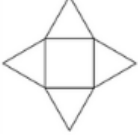
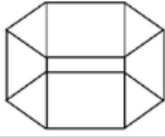
c.



d.



5. Match the correct nets with solids:

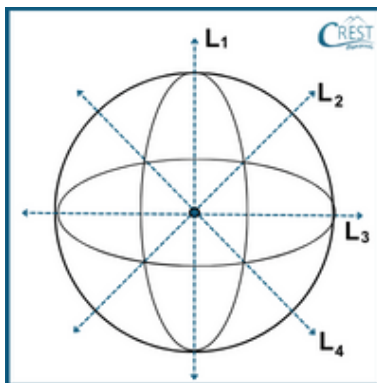
Solid Shapes	Nets of Solids
(A) 	(I) 
(B) 	(II) 
(C) 	(III) 
(D) 	(IV) 
(E) 	(V) 

- a. A-IV, B-I, C-II, D-V, E-III
- b. A-IV, B-I, C-III, D-V, E-II
- c. A-IV, B-I, C-V, D-II, E-III
- d. A-IV, B-I, C-V, D-III, E-II

Answer Key

1. d - Four lines of symmetry

Explanation: There are four lines of symmetry, shown as:



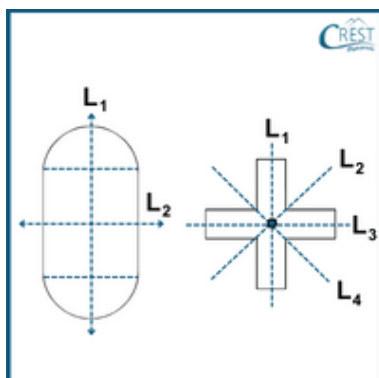
2. d -



Explanation: All the letters are correctly reflected and of the same size in option (d).

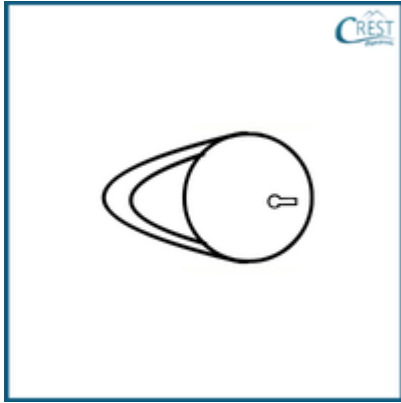
3. c - 2

Explanation: The lines of symmetry in the figures are shown as:

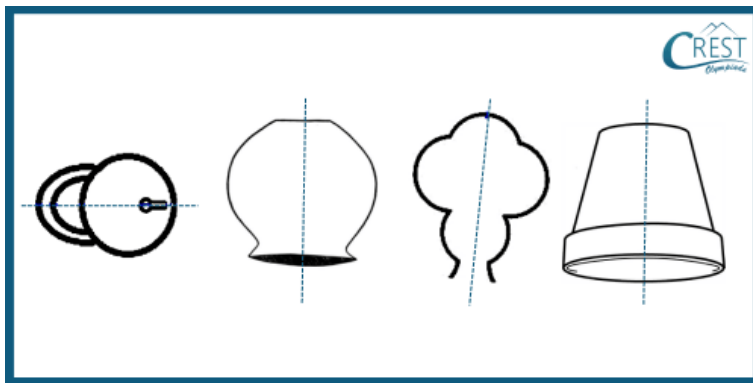


Difference in the number of lines of symmetry = $4 - 2 = 2$

4. c -



Explanation: The figures show the line of symmetry of the figures:



5. d - A-IV, B-I, C-V, D-III, E-II

Explanation: The nets of the solids are as follows:

- A-IV
- B-I
- C-V
- D-III
- E-II

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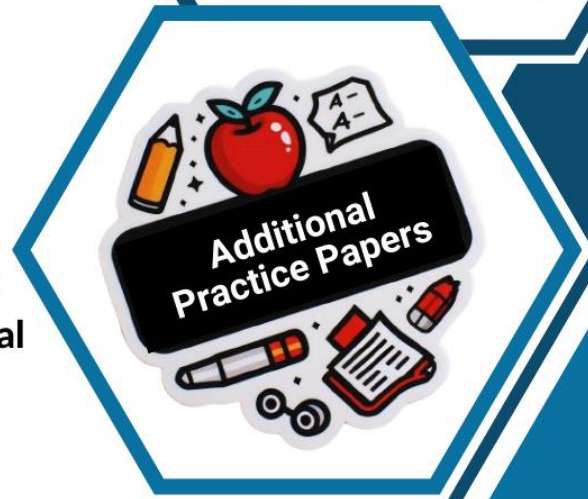
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