



CREST Mathematics Olympiad (CMO) Worksheet *for*

Class 4



Topic
Symmetry



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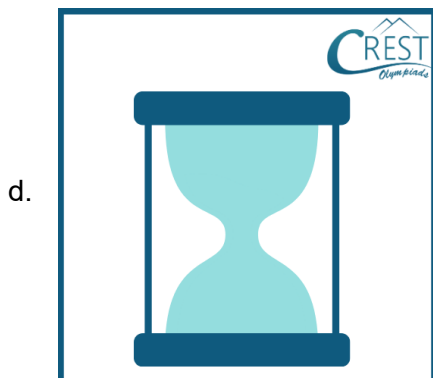
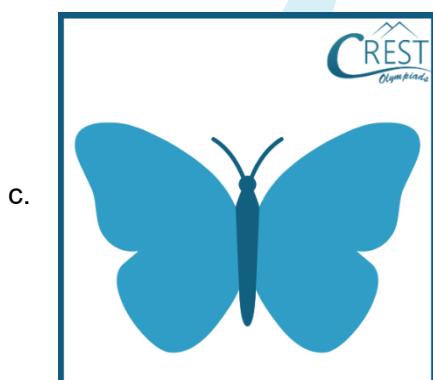
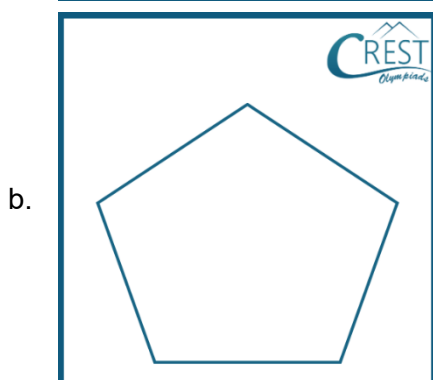
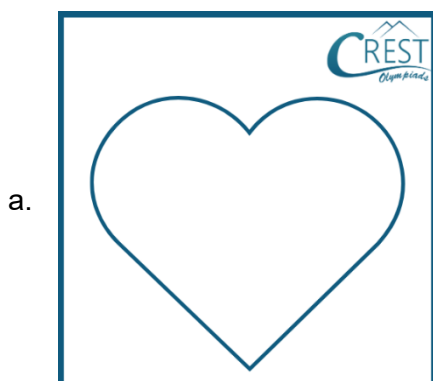
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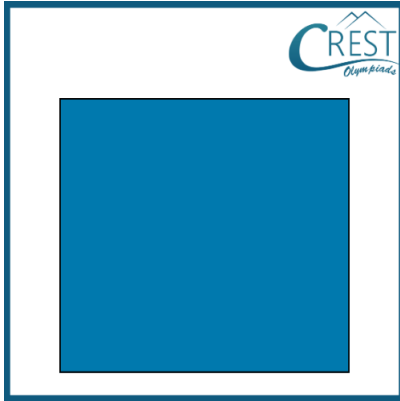
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Worksheet on Symmetry

1. Choose an odd one out.

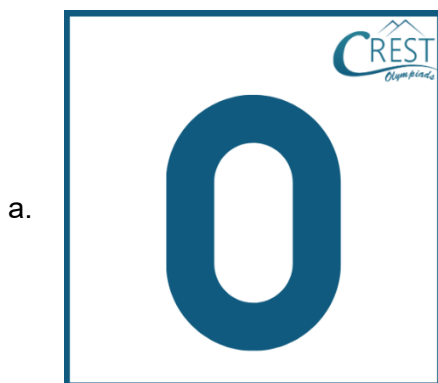


2. How many lines of symmetry does the square have?



- a. No line of symmetry
- b. Two lines of symmetry
- c. Four lines of symmetry
- d. Eight lines of symmetry

3. Which digit has no line of symmetry?



d.



4. Which letter of the following alphabet has no vertical line of symmetry?

a.



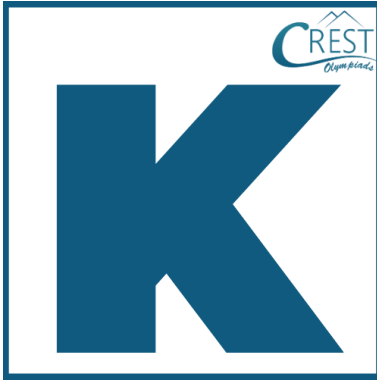
b.



c.

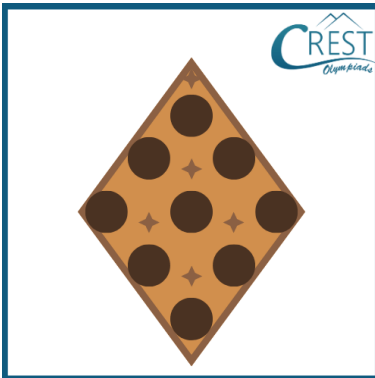


d.

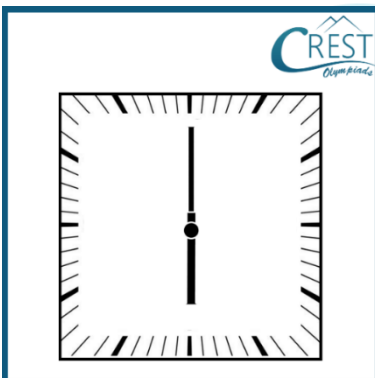


5. Which of the following objects does NOT have an order of rotational symmetry 2?

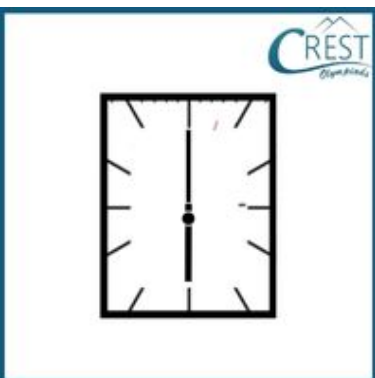
a.



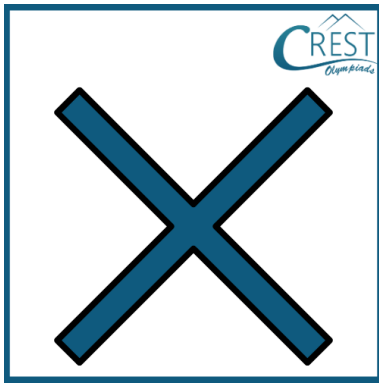
b.



c.

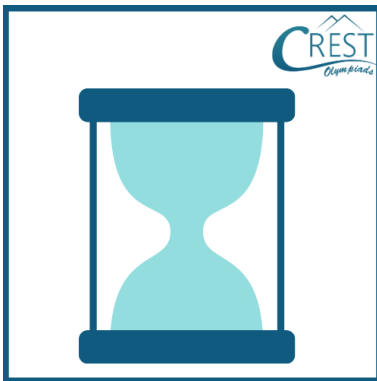


d.

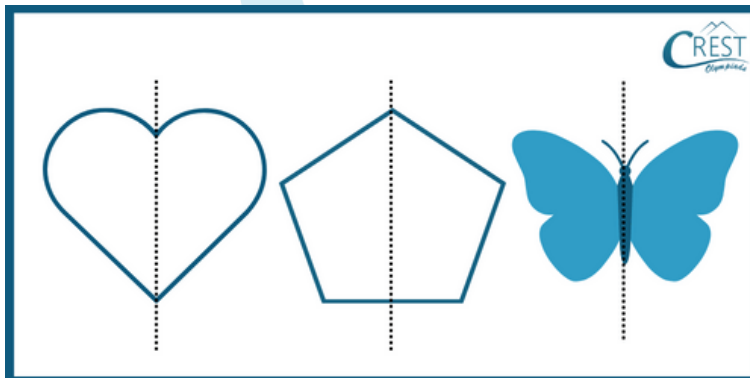


Answer Key

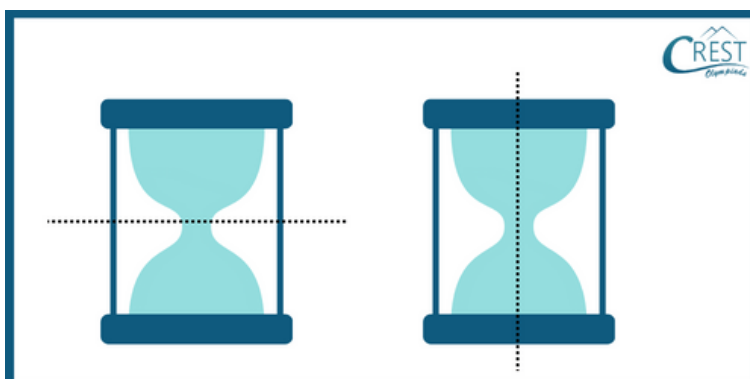
1. d -



Explanation: These figures have one line of symmetry, shown as:

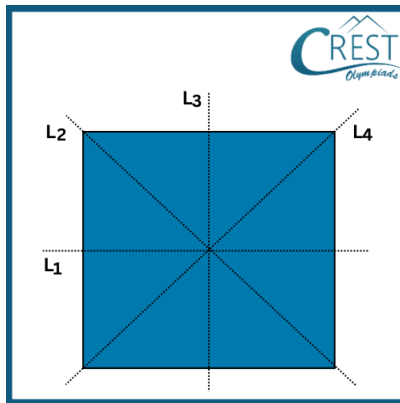


The figure has two lines of symmetry, shown as:



2. c - Four lines of symmetry

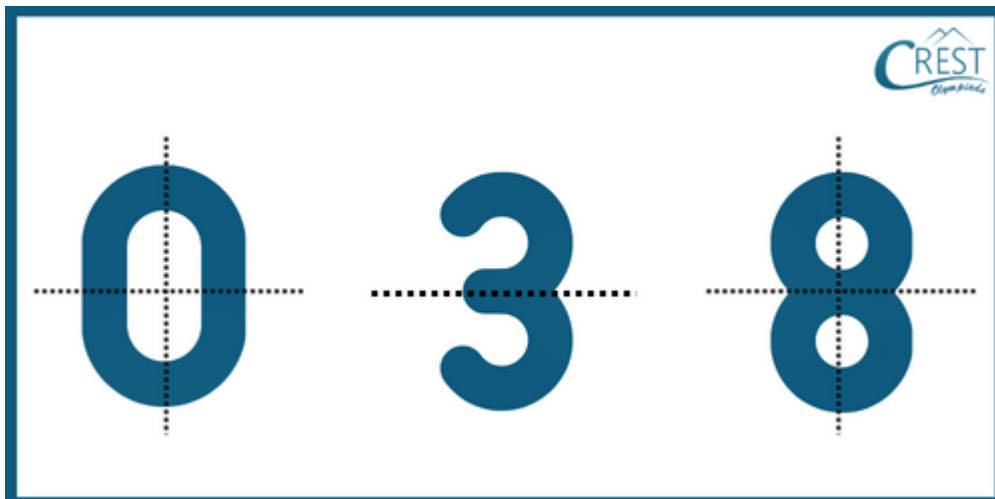
Explanation: A square has four lines of symmetry, shown as:



3. c –



Explanation: There is one line of symmetry for digit 3 and two lines of symmetry for the digits 0 and 8, shown as:



Other digits such as 1, 2, 4, 5, 6, 7 and 9 have no line of symmetry.

4. c –

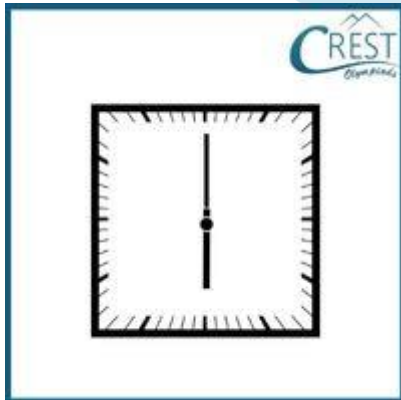


Explanation: Alphabets **Y**, **U** and **M** have a vertical line of symmetry whereas alphabet **K** has no vertical line of symmetry, shown as:



The alphabet **K** has one horizontal line of symmetry.

5. b –



Explanation: In option (a), the order of rotational symmetry of a rhombus-shaped biscuit is 2.
In option (b), the order of rotational symmetry of a square-shaped clock is 4.
In option (c), the order of rotational symmetry of a rectangle-shaped clock is 2.
In option (d), the order of rotational symmetry of a letter X-shaped board is 2.

Hence, the square does not have an order of rotational symmetry 2.

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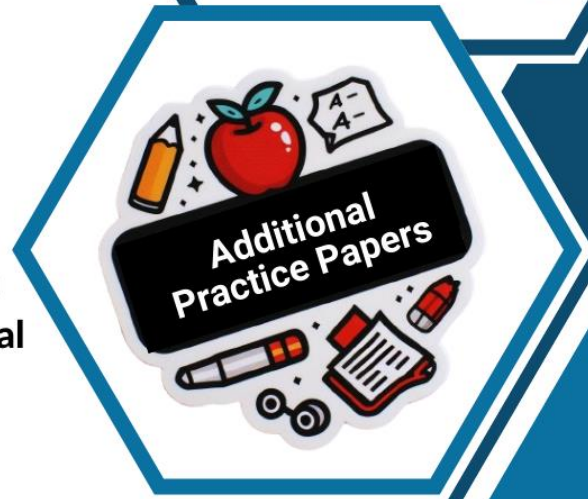
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