



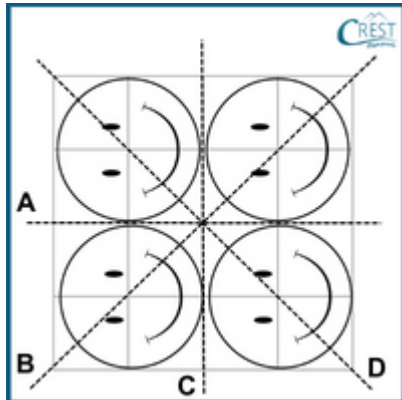
CREST Mathematics Olympiad (CMO) Worksheet *for* Class 5



Topic
Symmetry

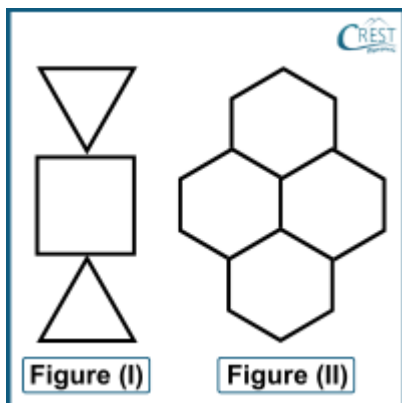
Worksheet on Symmetry

1. Which of the following dotted lines is the line of symmetry for the given figure?



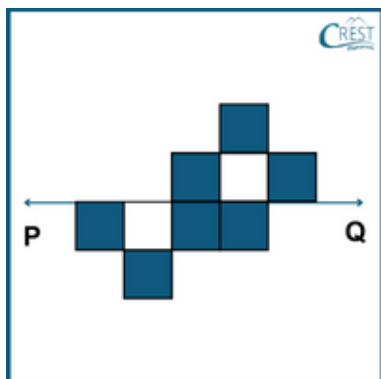
- a. A
- b. B
- c. C
- d. D

2. How many more lines of symmetry does Figure (II) have than Figure (I)?



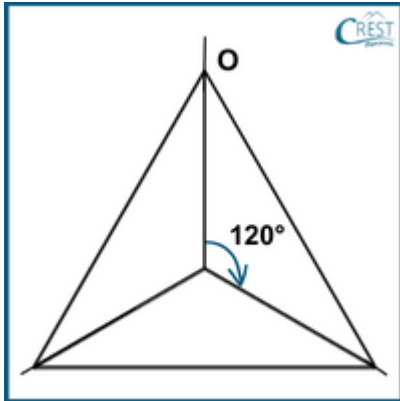
- a. 0
- b. 1
- c. 2
- d. 3

3. What is the least number of squares that must be added so that the line PQ becomes a line of symmetry?



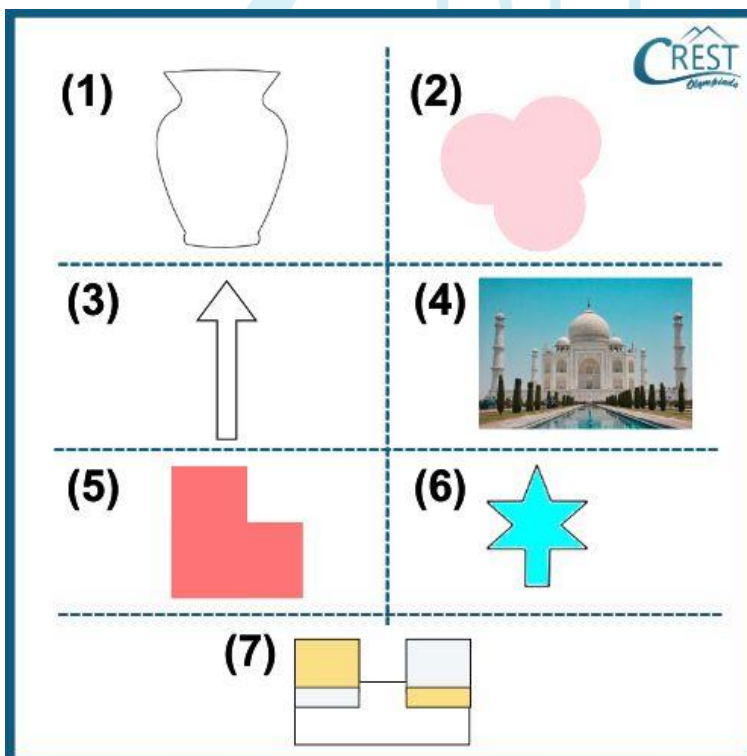
- a. 4
- b. 5
- c. 6
- d. 9

4. What is the rotational symmetry of a figure when the object is placed at one of the vertices of an equilateral triangle?



- a. 0
- b. 1
- c. 2
- d. 3

5. Which of the following figures are symmetric?



- a. Only (1), (2), (4) and (6)
- b. Only (1), (3), (4) and (6)
- c. Only (1), (3), (5) and (6)
- d. Only (2), (3), (4) and (6)

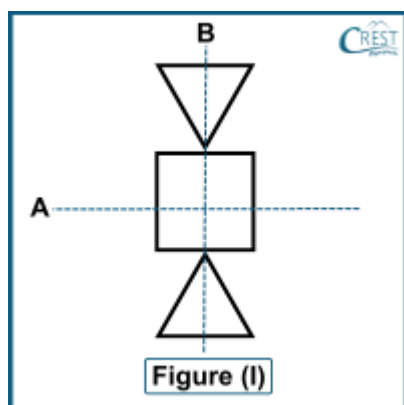
Answer Key

1. c - C

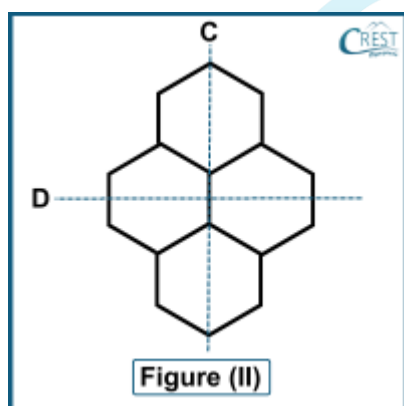
Explanation: C is the line of symmetry that divides into two perfectly identical halves.

2. a - 0

Explanation:



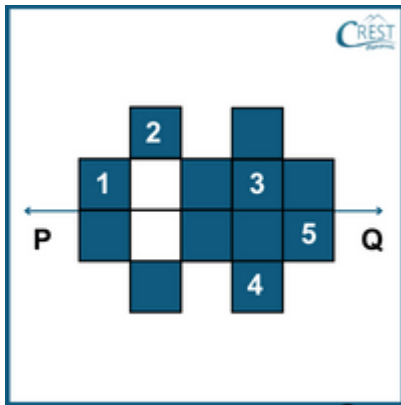
A and B are the lines of symmetry. There are two lines of symmetry in Figure (I).



P and Q are the lines of symmetry. There are two lines of symmetry in Figure (II). They have an equal number of lines of symmetry. Hence, their difference is zero.

3. b - 5

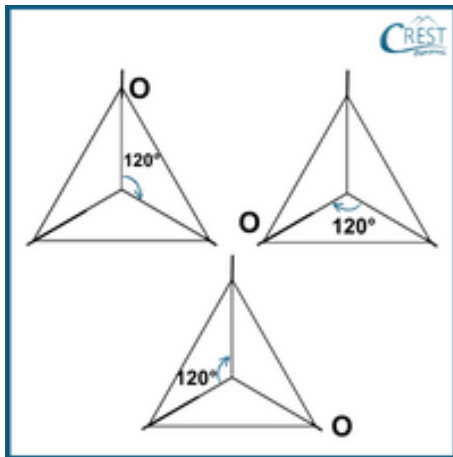
Explanation: Number of squares that must be added so that the line PQ becomes a line of symmetry is shown as.



The least number of squares that must be added so that the line PQ becomes a line of symmetry is 5.

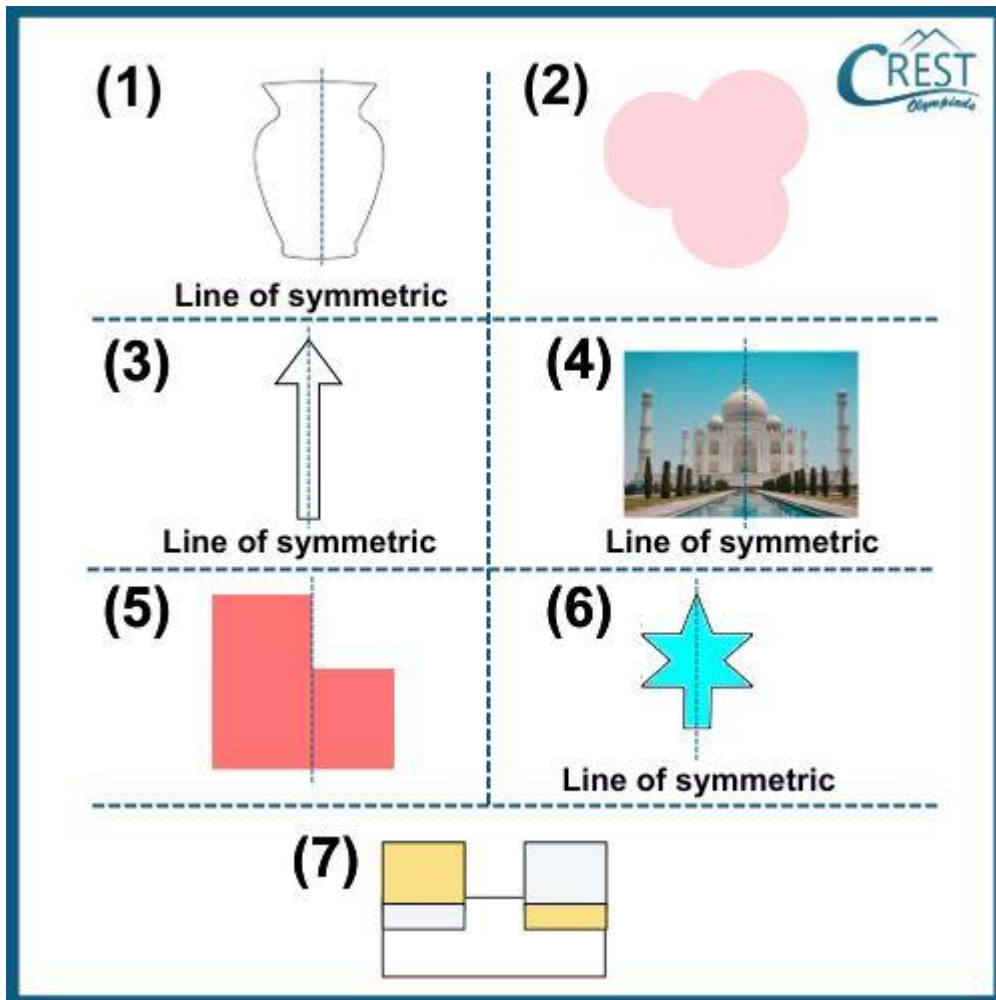
4. d - 3

Explanation: The order of rotational symmetry of an equilateral triangle is 3 and its angle of rotation is 120° which is shown as:



5. b - Only (1), (3), (4) and (6)

Explanation: Only (1), (3), (4) and (6) are symmetric figures which are shown as:



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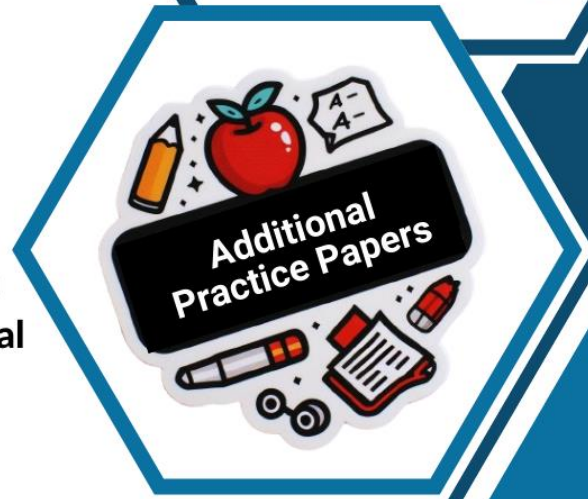
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