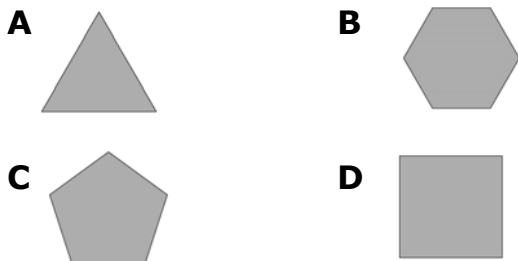Name: _____   Date: _____

Chapter 1 Test

For #1 to #4, circle the best answer.

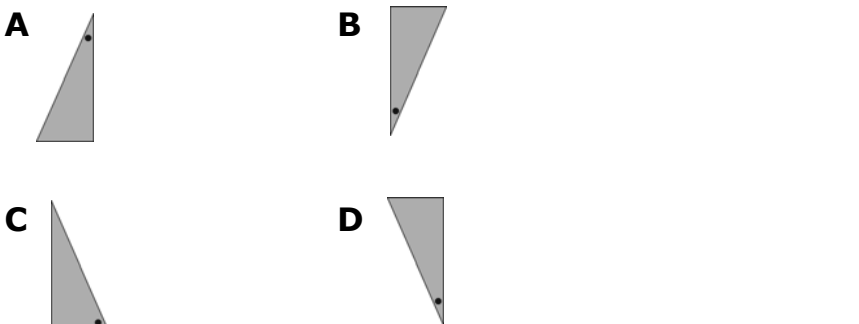**1.** Which figure has the largest number of lines of symmetry?

A

B

C

D

2. Both line symmetry and rotation symmetry are shown in which figures?

I   II   III   IV
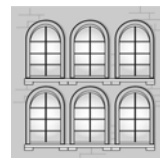
A I and III   **B** II and III

C I and IV   **D** III and IV

3. The figure to the right was rotated about a vertex. Which image shows the resulting image?

A

B

C

D

4. Which of the following statements is true when describing the picture to the right?

A There is a horizontal line of symmetry.
B There is an oblique line of symmetry.
C The line of symmetry is vertical.
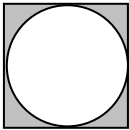**D** A line of symmetry does not exist.

Complete the statements in #5 and #6.

5. The order of rotation of the snowflake shown in the diagram is
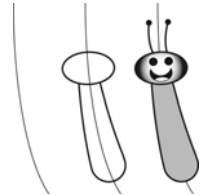
_____.

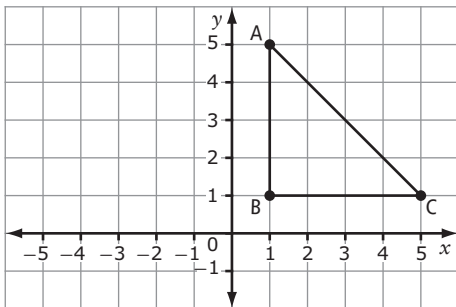**6.** In the diagram below, the angle of rotation is _____.

Short Answer

7. Omari says that the cartoon figure he drew is symmetrical with respect to a vertical line. Do you agree with Omari? Circle YES or NO. Give 1 reason for your answer.

_____

8. A triangle is drawn on a coordinate grid.

a) Draw the image of the triangle after it is translated 6 units to the left.

b) Label the coordinates of the translated points.

A′ _____

B′ _____

C′ _____

c) Circle the type of symmetry which results from the translation of the graph. VERTICAL or HORIZONTAL or NEITHER.