TEST PREP

(13) Symbol **Symmetry**

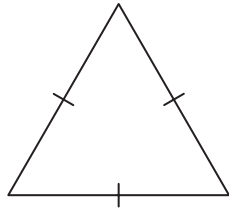| 25 |
| --- |
| **Suggested Time:** 30 min |

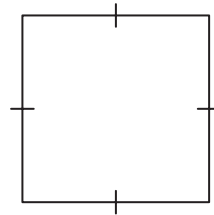**Multiple Choice**   (5 × 2 points = 10 points)

Fill in the circle next to the correct answer.

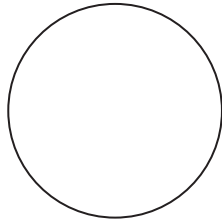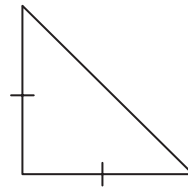**1.**   Which figure does not have rotational symmetry?

Ⓐ

Ⓑ

Ⓒ

Ⓓ

2.   Which figure has line symmetry?

Ⓐ

Ⓑ

Ⓒ

Ⓓ
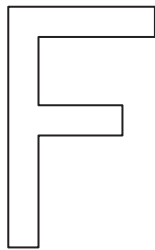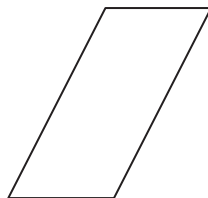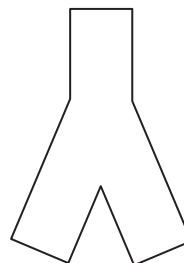
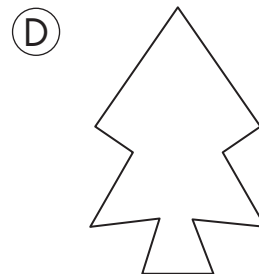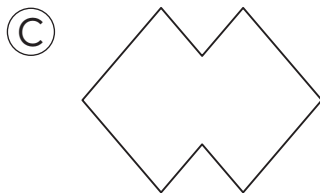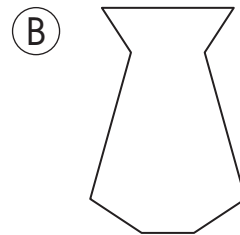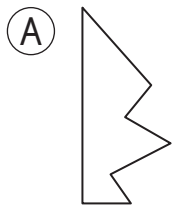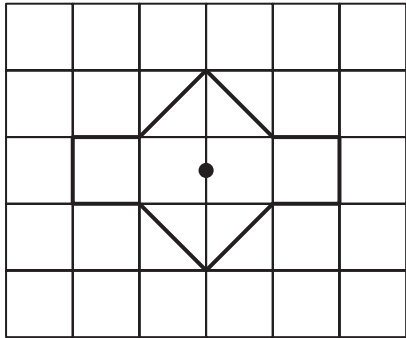**3.** Which shows the line of symmetry for the figure?
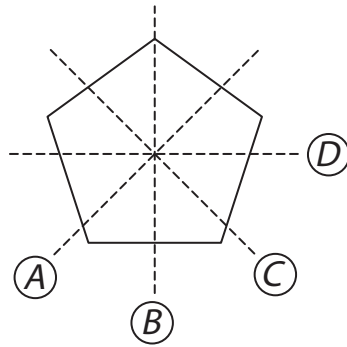
4. A paper was folded in half and cut as shown.
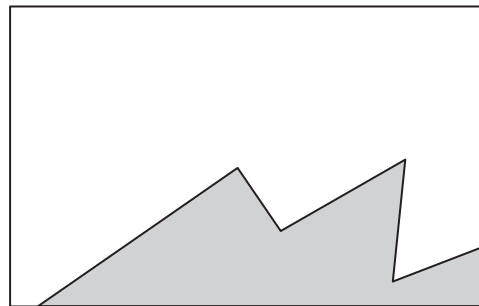
How will the figure look when the paper is unfolded?

Ⓐ

Ⓑ

Ⓒ

Ⓓ

5. What turn can the figure be rotated around the center and still look the same as it did before the turn?
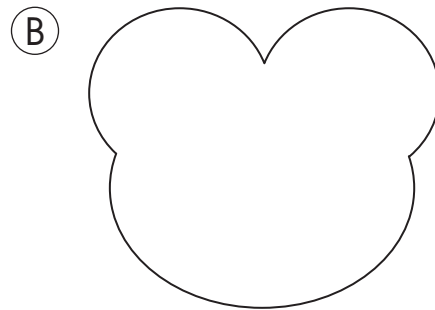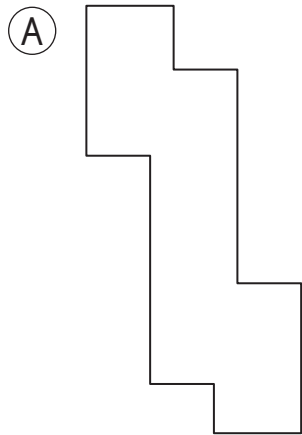

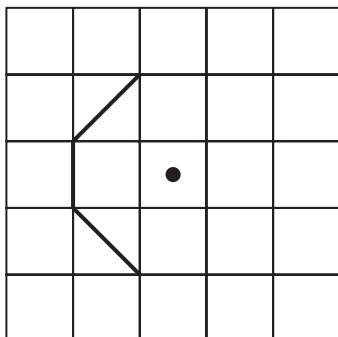(A) $\frac{1}{2}$-turn   (B) $\frac{3}{4}$-turn   (C) $\frac{1}{4}$-turn   (D) 90°

Short Answer   (5 × 2 points = 10 points)

6. Identify the figure that has line symmetry.
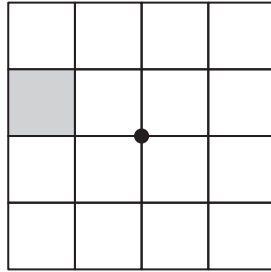Draw the line of symmetry on the identified figure.

(A)

(B)

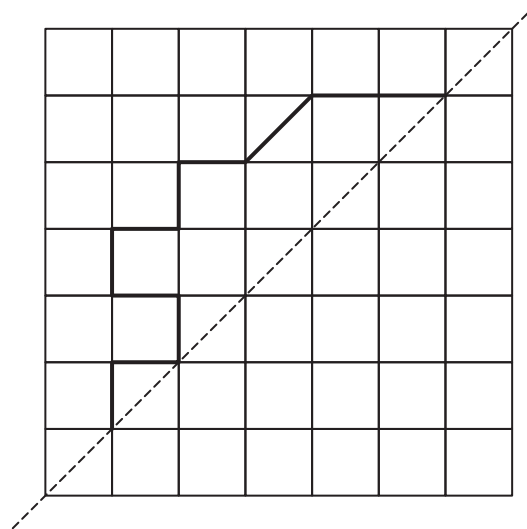**7.** Complete the figure so that it has rotational symmetry about the given point.
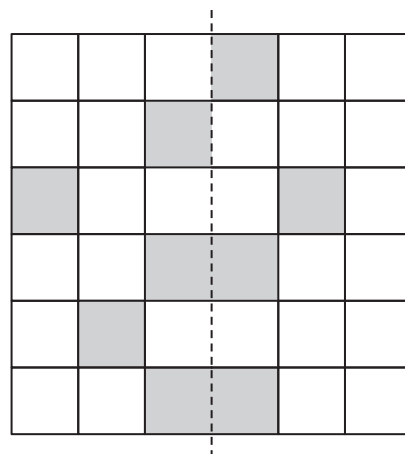
8.   Shade 3 more squares in the figure so that the pattern of shaded squares has rotational symmetry about the point.

9.   Complete the figure so that it has line symmetry about the dotted line.

10.   Shade 5 more squares so that the pattern of shaded squares has line symmetry about the dotted line.
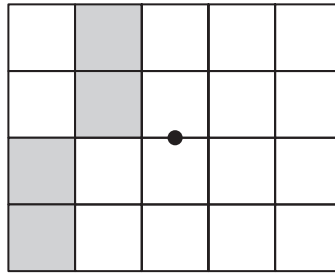
Extended Response (Question 11: 2 points, Question 12: 3 points)

Solve.

11. Complete the figure so that it has rotational symmetry about the given point.

12. Complete the figure so that it is symmetric about the dotted line *XY*.
    Then complete the new figure so that it is symmetric about the dotted line *AB*.
    Does the final pattern have rotational symmetry?