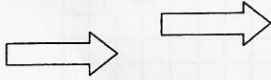


Name _____

Date _____

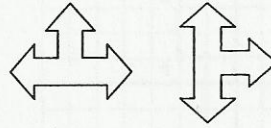
Unit 1 Transformation Assessment

1. Which transformation is shown?



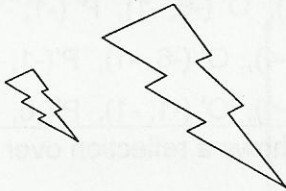
- A) dilation B) reflection
C) rotation D) translation

2. Which transformation is shown?



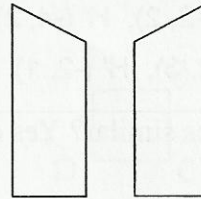
- A) dilation B) reflection
C) rotation D) translation

3. Which transformation is shown?

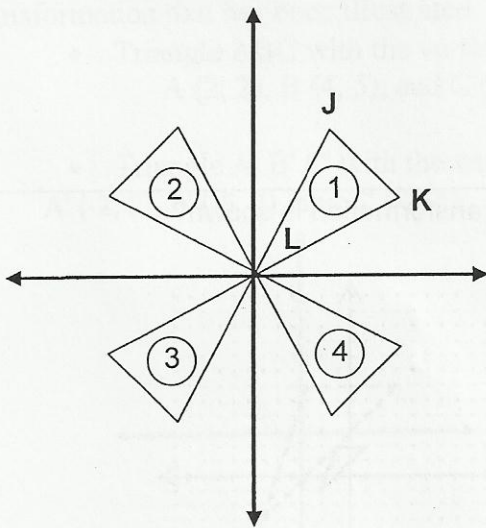


- A) dilation B) reflection
C) rotation D) translation

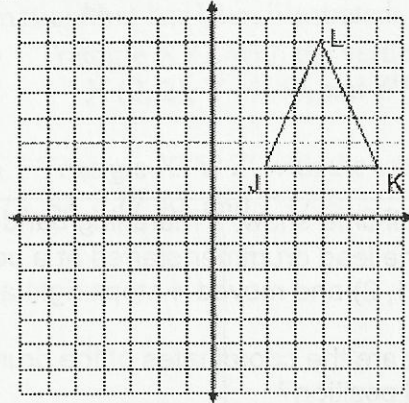
4. Which transformation is shown?



- A) dilation B) reflection
C) rotation D) translation

5. Which triangle shows the result after **rotating** triangle JKL 90° counterclockwise?

- A) triangle 1 B) triangle 2
C) triangle 3 D) triangle 4

6. Which set of ordered pairs shows the result of a **reflection** over the x-axis?

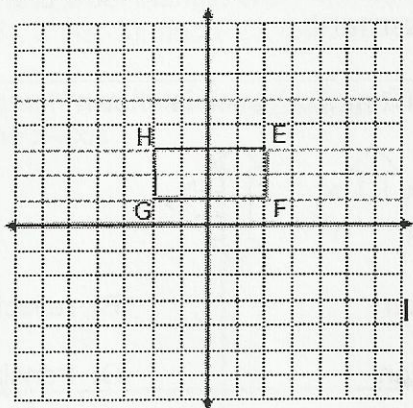
- A) $J'(-2, 2)$, $K'(-6, 2)$, $L'(-4, 7)$
B) $J'(-2, -2)$, $K'(-6, -2)$, $L'(-4, -7)$
C) $J'(2, -6)$, $K'(6, -6)$, $L'(4, -1)$
D) $J'(2, -2)$, $K'(6, -2)$, $L'(4, -7)$

Match the vocabulary with the correct definition.

- ____ 7. Reflection
____ 8. Rotation
____ 9. Translation
____ 10. Line Symmetry

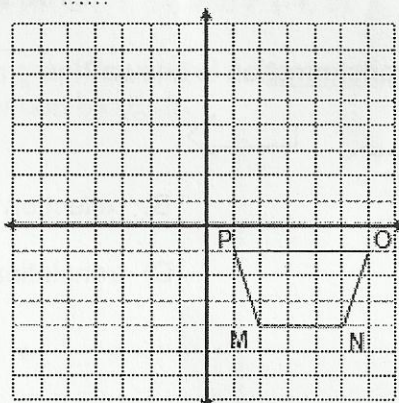
- A. A line through a plane figure so that the two halves are mirror images
B. The figure flips across a line of reflection, creating a mirror image.
C. The figure turns around a fixed point.
D. The figure slides along a straight line without turning.

11. Which set of ordered pairs shows the result of a **translation** described by $(4, -5)$?



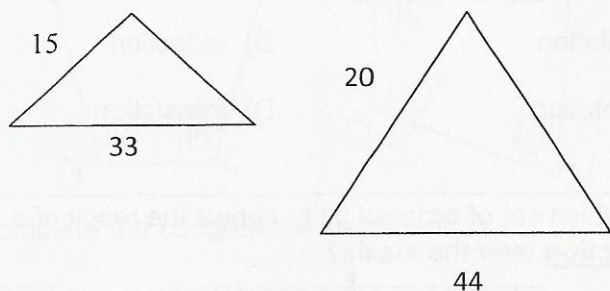
- A) $E' (2, -3)$, $F' (2, -1)$, $G' (-2, -1)$, $H' (-2, -3)$
- B) $E' (6, -2)$, $F' (6, -4)$, $G' (2, -2)$, $H' (2, -4)$
- C) $E' (-2, 6)$, $F' (-4, 6)$, $G' (-2, 2)$, $H' (-4, 2)$
- D) $E' (2, 1)$, $F' (2, 3)$, $G' (-2, 3)$, $H' (-2, 1)$

12. Which set of ordered pairs shows the result of a **reflection** over the y-axis?



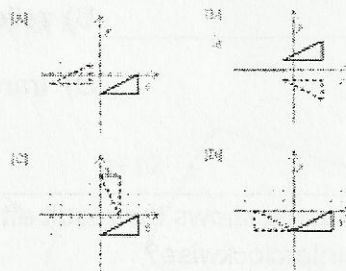
- A) $M' (2, 4)$, $N' (5, 4)$, $O' (6, 1)$, $P' (1, 1)$
- B) $M' (-2, 2)$, $N' (-5, 2)$, $O' (-6, -1)$, $P' (-1, -1)$
- C) $M' (-2, -4)$, $N' (-5, -4)$, $O' (-6, -1)$, $P' (-1, -1)$
- D) $M' (-5, -4)$, $N' (-2, -4)$, $O' (-1, -1)$, $P' (-6, -1)$

13. Are the following figures similar? Yes or no.



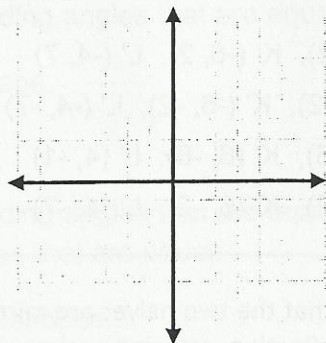
Show your work.

14. Which diagram shows a reflection over the x-axis?



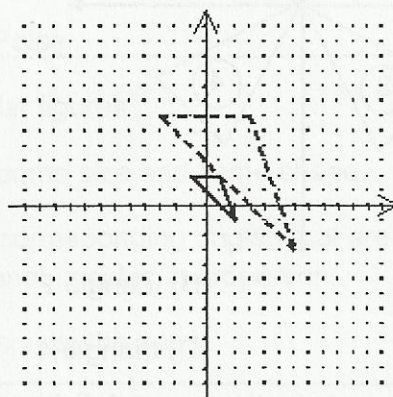
15. At the half-time show, a marching band marched in formation. The lead drummer started at a point with coordinates $(1, 2)$ and moved 4 steps right and 4 steps down.

What are the coordinates of the drummer's final position?



- A) $(2, 1)$
- B) $(-3, -2)$
- C) $(5, 6)$
- D) $(5, -2)$

16. Which transformation is shown?



- A) dilation
- B) reflection
- C) rotation
- D) translation

17. Which letter maintains orientation after a reflection over the y-axis?

- A) V B) Q C) Z D) R

18. Which letter has rotational symmetry?

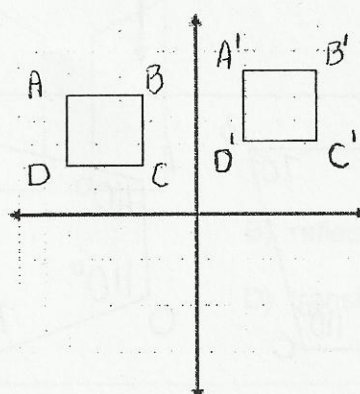
- A) V B) Q C) Z D) R

19. Graph the following coordinates.

- Triangle ABC with the vertices A (-4, 2), B (-4, -2), and C (-2, 2)
- Graph its image using the motion rule $(x,y) \rightarrow (x-3, y+2)$

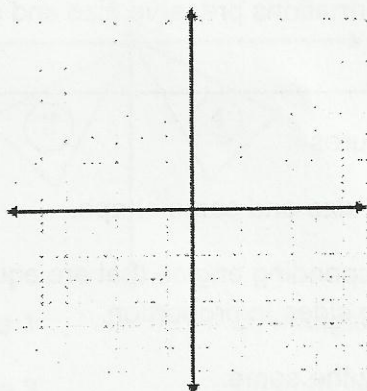


20. Using vector notation, identify the vector used.



21. Graph these coordinates and identify the transformation that has been illustrated.

- Triangle ABC with the vertices A (2, 2), B (4, 5), and C (4, 2).
- Triangle A' B' C' with the vertices A' (-2, 2), B' (-5, 4), and C' (-2, 4).

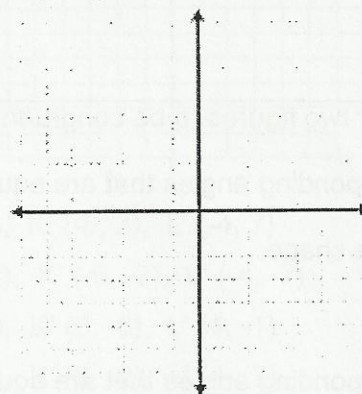


Which transformation is shown?

- A) dilation B) reflection
C) rotation D) translation

22. Graph these coordinates and identify the transformation that has been illustrated.

- Triangle XYZ with the vertices X (2, 2), Y (4, 5), and Z (4, 2).
- Triangle X' Y' Z' with the vertices X' (5, 5), Y' (7, 8), and Z' (7, 5).

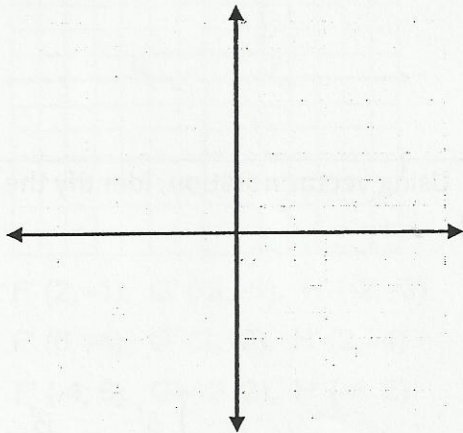


Which transformation is shown?

- A) dilation B) reflection
C) rotation D) translation

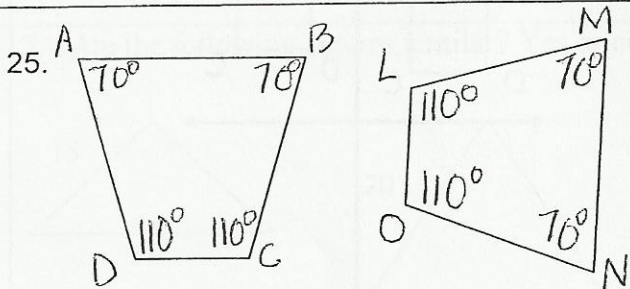
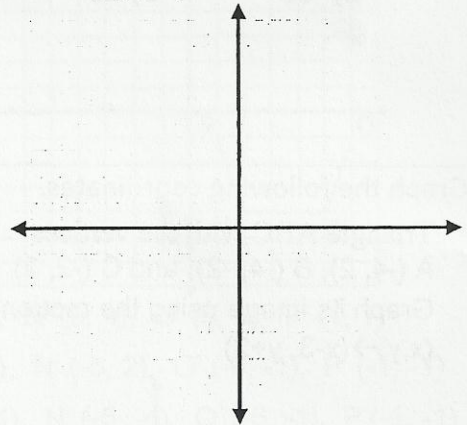
23.

- Graph and label triangle DEF with vertices D (4,-3), E (-3,-3), and F (2,-5).
- Then graph and label its **reflection** D'E'F' over the x-axis.



24.

- Graph and label triangle DEF with vertices D (-3,1), E (-1, 5), and F (-4, 5).
- Then graph and label its **translation** D'E'F' described by (6,-3).

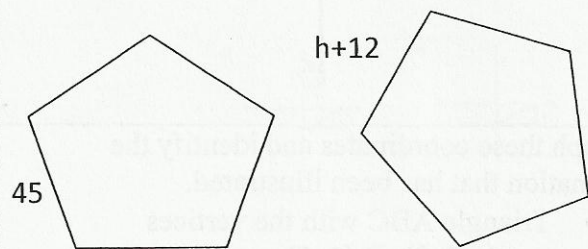


Complete the congruence statement:

ABCD \cong _____

26. The following pentagons are congruent.

What is the value of h? _____



27. All transformations maintain orientation.

True or False.

29. In order for two figures to be congruent they must

- have corresponding angles that are equal.
- be the same shape.
- look alike.
- have corresponding angles that are equal and corresponding sides that are equal.

Choose the best response.

28. All transformations preserve size and shape.

True or False.

30. Similar figures

- have same size and same shape.
- have corresponding angles that are equal and corresponding sides in proportion.
- look exactly the same.
- can be determined just by looking at them.

Choose the best answer.