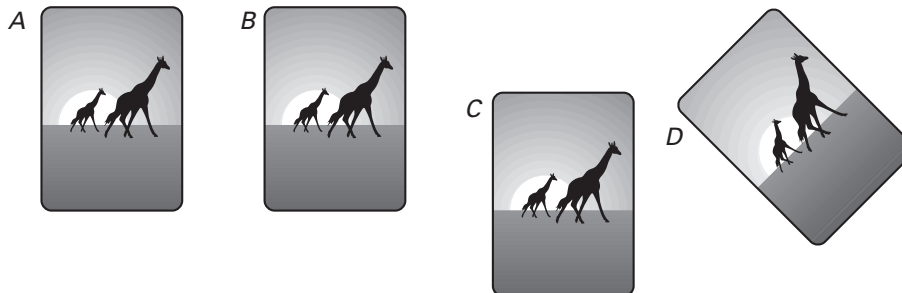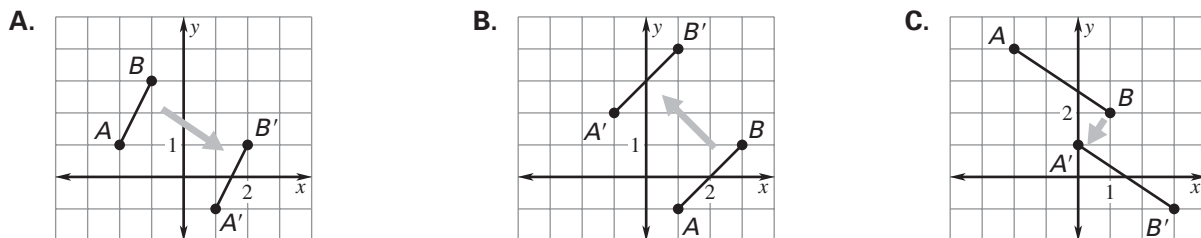NAME _____ DATE _____

Practice A
For use with pages 421–428

Four playing cards are face down on the floor. Name the transformation.

A

B

C

D

1. Shape *A* is mapped to shape *C*.

2. Shape *A* is mapped to shape *B*.

3. Shape *C* is mapped to shape *D*.

4. Shape *B* is mapped to shape *C*.

Match the graph with the description of the translation.

A.

B.

C.

5. $(x, y) \rightarrow (x + 2, y - 3)$

6. $(x, y) \rightarrow (x + 3, y - 2)$

7. $(x, y) \rightarrow (x - 2, y + 3)$

Consider the translation that is defined by the coordinate notation $(x, y) \rightarrow (x + 4, y - 6)$.

8. What is the image of $(1, 1)$?

9. What is the image of $(-3, 4)$?

10. What is the image of $(5, 2)$?

11. What is the preimage of $(0, 4)$?

12. What is the image of $(3, 0)$?

13. What is the preimage of $(2, -4)$?

Copy figure *ABCD* and draw its image after the translation.

14. $(x, y) \rightarrow (x + 1, y + 4)$

15. $(x, y) \rightarrow (x - 2, y - 2)$

16. $(x, y) \rightarrow (x - 5, y + 6)$

17. $(x, y) \rightarrow (x + 3, y - 5)$