

NJ ASK Practice

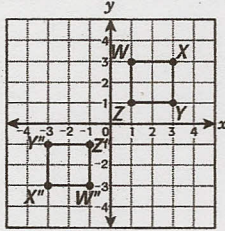
DIRECTIONS FOR QUESTIONS 1 THROUGH 4: Read each question. Circle the letter of the answer you choose.



NJ ASK Tip

Geometry Form a mental picture of the problem.

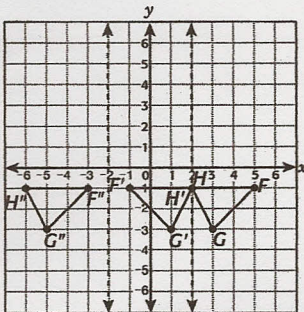
- 1 On the coordinate plane below, rectangle $WXYZ$ was reflected over the x -axis and then reflected again over the y -axis.



What one combination could transform rectangle $WXYZ$ onto rectangle $W''X''Y''Z''$ once?

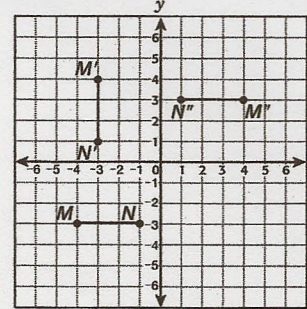
- A. a reflection across the y -axis
- B. a translation 4 left and 4 down
- C. a rotation 180° around the origin
- D. a reflection across the x -axis

- 2 Reflecting triangle FGH across the line $x = 2$ and then across the line $x = -2$ is the same as which transformation?



- A. a translation 4 units left and 4 units up
- B. a translation 8 units left
- C. a reflection across the line $x = -\frac{1}{2}$
- D. a reflection across the line $y = 0$

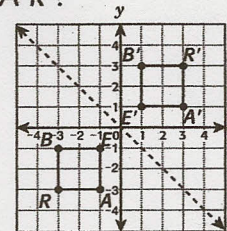
- 3 Line segment MN is rotated clockwise 90° around the origin. Its image is then rotated clockwise another 90° .



Which transformation on line segment MN also gives line segment $M''N''$?

- A. a translation of 6 up and 5 right
- B. a 90° counterclockwise rotation
- C. a reflection across the y -axis
- D. a 180° clockwise rotation

- 4 Square $BEAR$ is reflected across the line $y = -x$. Square $B'E'A'R'$ is then rotated 90° clockwise around the origin to create square $B''E''A''R''$.



Which one transformation will transform square $BEAR$ onto square $B''E''A''R''$?

- A. a reflection over the x -axis
- B. a reflection over the y -axis
- C. a rotation 90° clockwise
- D. a translation 4 units right