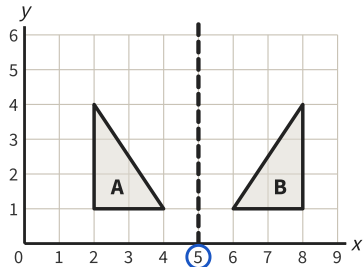


Mixed Transformations: Describe

ANSWERS

1

Describe fully the transformation.



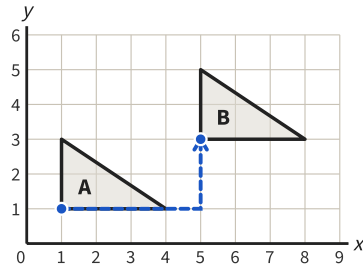
Reflection
in the line
 $x = 5$

Rotation
 180°
 90° clockwise
about
(,)

Translation
by the vector
 $\begin{pmatrix} \text{ } \\ \text{ } \end{pmatrix}$

2

Describe fully the transformation.



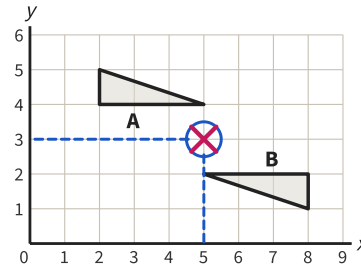
Reflection
in the line
 $\square = \square$

Rotation
 180°
 90° clockwise
about
(,)

Translation
by the vector
 $\begin{pmatrix} 4 \\ 2 \end{pmatrix}$

3

Describe fully the transformation.



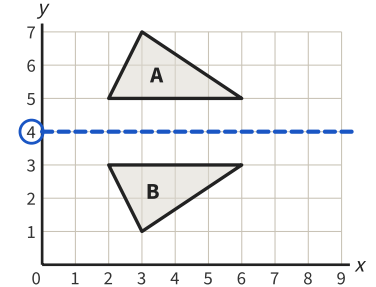
Reflection
in the line
 $\square = \square$

Rotation
 180°
 90° clockwise
about
(,)

Translation
by the vector
 $\begin{pmatrix} \text{ } \\ \text{ } \end{pmatrix}$

4

Describe fully the transformation.



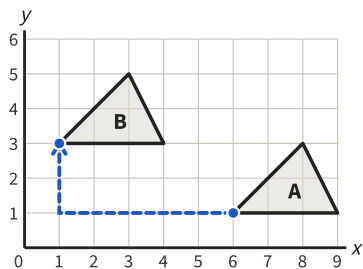
Reflection
in the line
 $y = 4$

Rotation
 180°
 90° clockwise
about
(,)

Translation
by the vector
 $\begin{pmatrix} \text{ } \\ \text{ } \end{pmatrix}$

5

Describe fully the transformation.



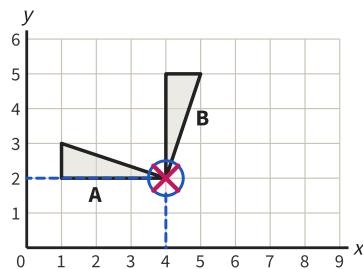
Reflection
in the line
 $\square = \square$

Rotation
 180°
 90° clockwise
about
(,)

Translation
by the vector
 $\begin{pmatrix} -5 \\ 2 \end{pmatrix}$

6

Describe fully the transformation.



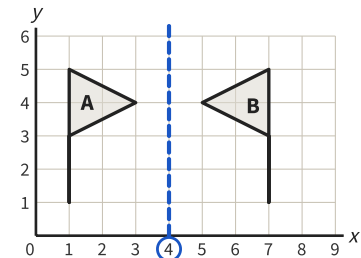
Reflection
in the line
 $\square = \square$

Rotation
 180°
 90° clockwise
about
(,)

Translation
by the vector
 $\begin{pmatrix} \text{ } \\ \text{ } \end{pmatrix}$

7

Flag A moves to flag B.
Describe fully the transformation.



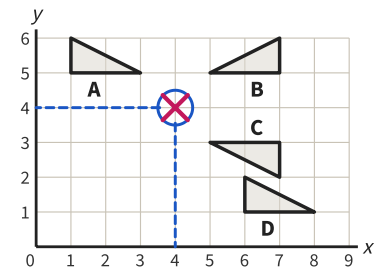
Reflection
in the line
 $x = 4$

Rotation
 180°
 90° clockwise
about
(,)

Translation
by the vector
 $\begin{pmatrix} \text{ } \\ \text{ } \end{pmatrix}$

8

Which shape is A rotated 180° about the cross?



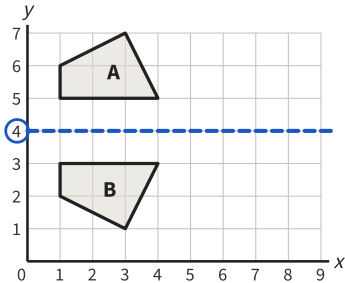
Shape

Mixed Transformations: Describe *further practice*

ANSWERS

9

Describe fully the transformation.



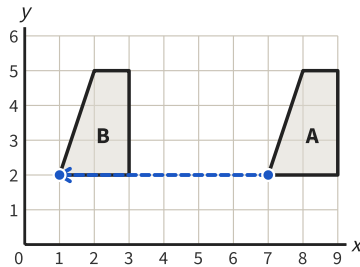
Reflection in the line $y = 4$ 90° clockwise about $(\quad, \quad)$

Rotation 180° about $(\quad, \quad)$

Translation by the vector $\begin{pmatrix} \quad \\ \quad \end{pmatrix}$

10

Describe fully the transformation.



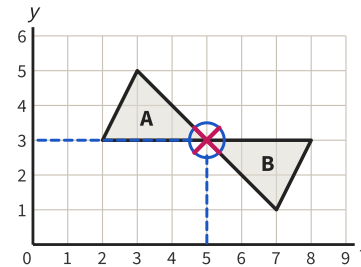
Reflection in the line $\quad = \quad$ 90° clockwise about $(\quad, \quad)$

Rotation 180° about $(\quad, \quad)$

Translation by the vector $\begin{pmatrix} -6 \\ 0 \end{pmatrix}$

11

Describe fully the transformation.



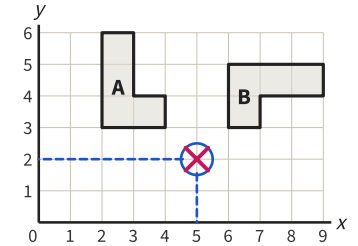
Reflection in the line $\quad = \quad$ 90° clockwise about $(5, 3)$

Rotation 180° about $(\quad, \quad)$

Translation by the vector $\begin{pmatrix} \quad \\ \quad \end{pmatrix}$

12

Piece A in a game moves to B. Describe fully the transformation.



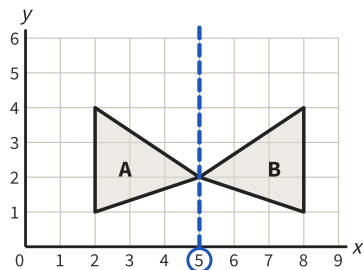
Reflection in the line $\quad = \quad$ 90° clockwise about $(5, 2)$

Rotation 180° about $(\quad, \quad)$

Translation by the vector $\begin{pmatrix} \quad \\ \quad \end{pmatrix}$

13

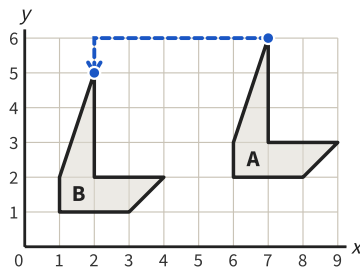
Describe fully the single transformation that maps A onto B.



Reflection in the line $x = 5$

14

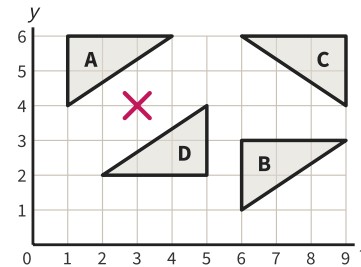
A boat sails from A to B. Describe fully the transformation.



Translation by the vector $\begin{pmatrix} -5 \\ -1 \end{pmatrix}$

15

B, C and D are moves of shape A. Which move is each one?



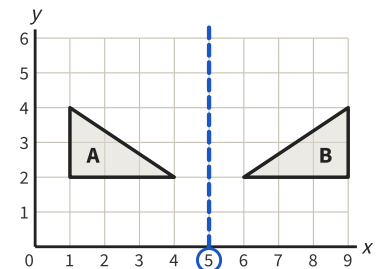
Reflection: shape C

Rotation: shape D

Translation: shape B

16

Sam says A to B is a translation. What has he got wrong?



B has been flipped.

It is a reflection in the line $x = 5$.