

Name: _____

Mixed Transformations Practice with Maps

Directions: Using the "Map of Northeast US", perform the transformations described in order. Then describe an alternative path.

Direction Set A

Start in Harrisburg, Pennsylvania:

- Reflect across the x -axis.
- Then rotate 270 degrees counterclockwise about the origin
- Then translate down 2 units and left 9 units

Where are you now? _____

Describe an alternative sequence of transformations that would have moved you from the same starting position to your current location:

Direction Set B

Start in Boston, Massachusetts:

- Dilate by a factor of 2 with a center of dilation at the origin.
- Then rotate 90 degrees clockwise about the origin.
- Then translate left 3 units

Where are you now? _____

Describe an alternative sequence of transformations that would have moved you from the same starting position to your current location:

Direction Set C

Start in Hartford, Connecticut:

- Rotate 180 degrees about the origin
- Then reflect across the y -axis
- Then translate right 4 units and up 4 units

Where are you now? _____

Describe an alternative sequence of transformations that would have moved you from the same starting position to your current location:

Name: _____

Mixed Transformations Practice with Maps

Directions: Using the "Map of Southeast US", perform the transformations described in order. Then describe an alternative path.

Direction Set A

Start in Atlanta Georgia:

- Dilate by a factor of 3 with a center of dilation at the origin
- Then reflect across the x-axis
- Then translate up 1 unit

Where are you now? _____

Describe an alternative sequence of transformations that would have moved you from the same starting position to your current location:

Direction Set B

Start in Raleigh, North Carolina:

- Rotate 270 degrees counterclockwise about the origin
- Then reflect across the y-axis
- Then translate down 2 and right 3 units

Where are you now? _____

Describe an alternative sequence of transformations that would have moved you from the same starting position to your current location:

Direction Set C

Start in Little Rock, Arkansas:

- Translate right 6 units
- Then reflect across the x-axis
- Then rotate 90 degrees clockwise about the origin

Where are you now? _____

Describe an alternative sequence of transformations that would have moved you from the same starting position to your current location:

Name: _____

Mixed Transformations Practice with Maps

Directions: Using the "Map of West US", perform the transformations described in order. Then describe an alternative path.

Direction Set A

Start in Salt Lake City, Utah:

- Translate right 1 unit and up 1 unit
- Then dilate by a factor of 6 with a center of dilation at the origin
- Then translate down 1 unit

Where are you now? _____

Describe an alternative sequence of transformations that would have moved you from the same starting position to your current location:

Direction Set B

Start in Denver, Colorado:

- Rotate 270 degrees counterclockwise about the origin
- Then translate up 15 units and left 10 units
- Then reflect across the x-axis

Where are you now? _____

Describe an alternative sequence of transformations that would have moved you from the same starting position to your current location:

Direction Set C

Start in Olympia, Washington:

- Reflect across the y-axis
- Then dilate by a factor of $\frac{1}{3}$ with a center of dilation at the origin
- Then translate left 8 units and up 1 unit

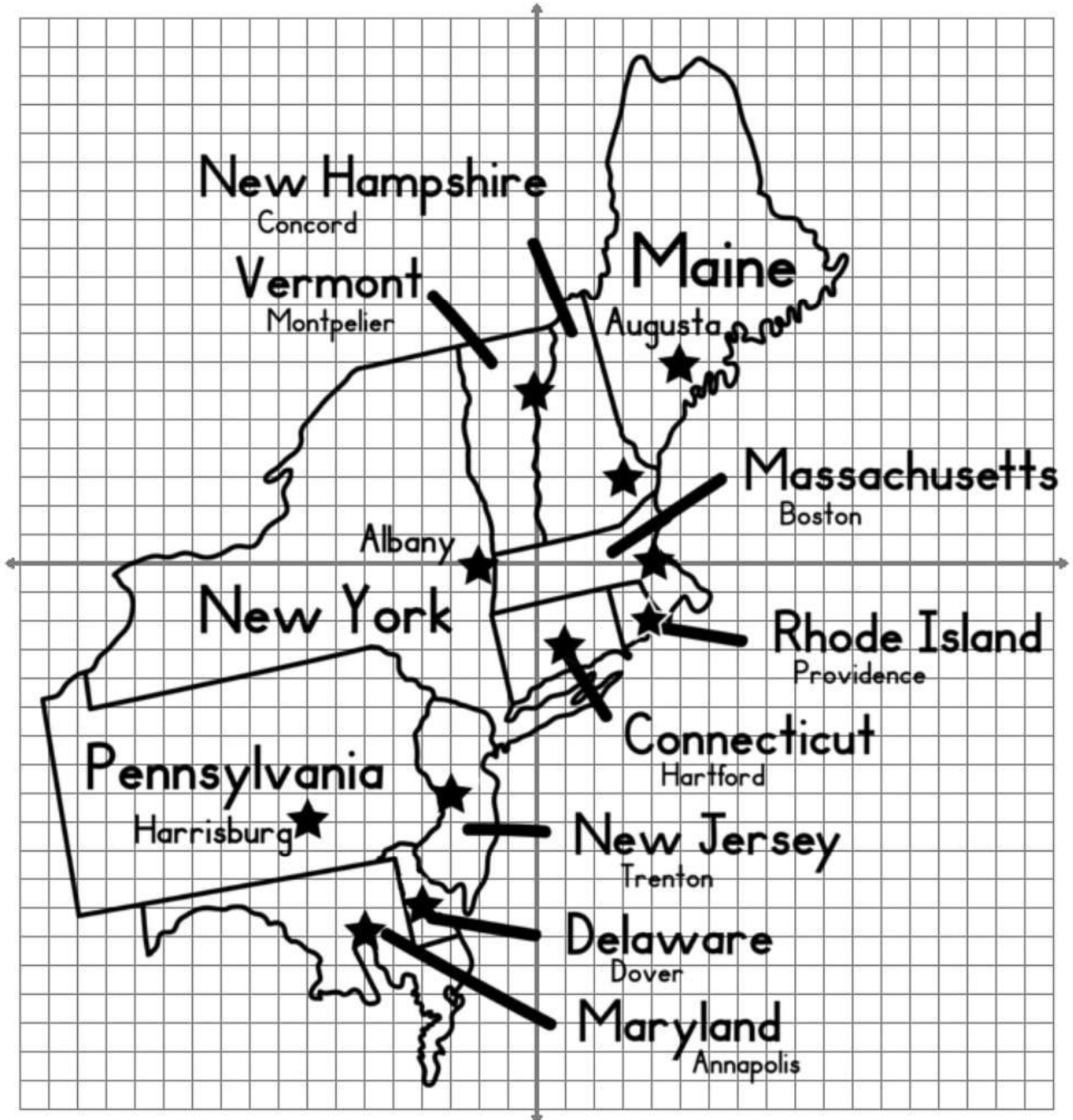
Where are you now? _____

Describe an alternative sequence of transformations that would have moved you from the same starting position to your current location:

Map of Midwest US



Map of Northeast US



Map of Southeast US



Map of West US

