

Transformation Coordinate Matching

Transformation Coordinates	Name: _____	Period: _____
Directions: Cut out the answers from the additional half sheet. For each coordinate pair, determine which transformation it corresponds to. Once you are confident in your answers, glue them in place.		
Reflection over x-axis	Glue answer here.	
Rotation 180°		
Translation 6 left, 2 down		
Rotation 90° clockwise		
Reflection over y-axis		
Translation 4 right, 7 up		
Dilation with a scale factor of 3		
Translation 6 left, 2 up		
Rotation 90° counter clockwise		
Dilation with a scale factor of $\frac{1}{2}$		

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Match the coordinate to the transformation it represents.

Card 1: (3, 1) with a blue arrow pointing down to (1, -3)

Card 2: (5, 4) with a blue arrow pointing down to (5, -4)

Card 3: (-4, 1) with a blue arrow pointing down to (4, -1)

Card 4: (0, 2) with a blue arrow pointing down to (4, 9)

Card 5: (-6, -4) with a blue arrow pointing down to (-3, -2)

Card 6: (-1, 2) with a blue arrow pointing down to (-3, 6)

Deeper Dive Lesson

Rigid Transformation Coordinates

Name: _____ Period: _____

Directions: Cut out the answers for which transformation, it corresponds to on the coordinate plane. For each coordinate pair, determine if you are confident in your answers, glue them in place.

Glue answer here.

Reflection over x-axis	Translation 4 right, 7 up
Rotation 180°	Rotation 270° counter
Translation 6 left, 2 down	Rotation 90° clockwise
Rotation 90° clockwise	Reflection over y-axis
Reflection over y-axis	Reflection over x-axis

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Period: _____

Directions: For each coordinate pair, determine if you are confident in your answers, glue them in place.

Glue answer here.

Reflection over x-axis	Translation 4 right, 7 up
Rotation 180°	Dilation with a scale factor of 3
Rotation 90° clockwise	Translation 6 left, 2 up
Translation 6 left, 2 down	Rotation 90° counter
Reflection over y-axis	Dilation with a scale factor of 1/2

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Version #1 uses only rigid transformations.

Version #2 uses all 4 transformations.

Transformations Worksheet

Name: _____ Period: _____

Directions: Use the additional half sheet for each coordinate pair. Determine which transformation corresponds to each coordinate pair. Place your answer in the space provided.

Reflection over x-axis	Give answer here	Translation 4 right, 7 up
Rotation 180°		Dilation with a scale factor of 3
Translation 6 left, 2 down		Translation 6 left, 2 up
Rotation 90° clockwise		Rotation 90° counter clockwise
Reflection over y-axis		Dilation with a scale factor of 1/2

Coordinate Pairs:

- (8, 2) → (-8, 2)
- (6, 8) → (0, 10)
- (5, 4) → (5, -4)
- (-4, 1) → (4, -1)
- (4, 5) → (-2, 3)
- (-1, 2) → (-3, 6)
- (0, 2) → (-4, 9)
- (0, 3) → (-3, 0)
- (5, 1) → (1, -3)
- (-6, -4) → (-3, -2)

Dilation with a scale factor of 3

Translation 6 left, 2 up

Rotation 90° counter clockwise

Dilation with a scale factor of 1/2

Coordinate Pairs:

- (-6, -4) → (-3, -2)
- (4, 5) → (-2, 3)
- (0, 2) → (4, 9)
- (-1, 2) → (-1, 2)

Coordinate Pairs:

- (5, 4) → (5, -4)
- (3, 1) → (1, -3)
- (4, 5) → (0, 3)
- (-1, 2) → (-3, 6)
- (8, 2) → (-8, 2)
- (0, 3) → (-3, 0)

Transformations:

- Rotation 180°
- Translation 6 left, 2 down
- Rotation 90° clockwise
- Reflection over y-axis
- Translation right 4
- Dilation with a scale factor of 1/2
- Dilation with a scale factor of 3