QUIZIZZ

Homework 3.1 due Mon 11/2 *Woo Hoo, No problems to attach*

17 Questions

NAME : _____

CLASS : _____

DATE : _____

1.
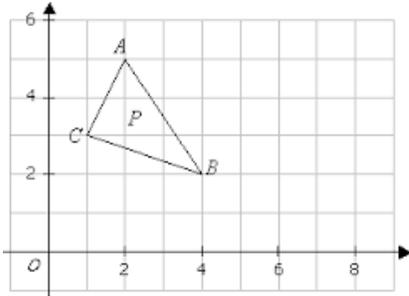
Triangle ABC is going to be translated. How is ABC being translated if the rule (x,y) --> (x+3, y-2) is used?

☐ a) 3 up and 2 left
☐ b) 3 right and 2 down
☐ c) 3 left and 2 up
☐ d) 3 right and 2 up

2.
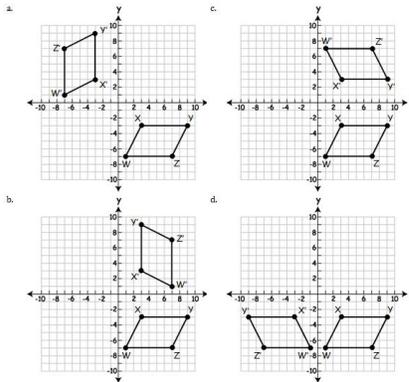
Which answer represents a reflection across the x-axis, using the algebraic rule (x,y) --> (x, -y)?

☐ a) d
☐ b) c
☐ c) b
☐ d) a

⑦ Help

3.
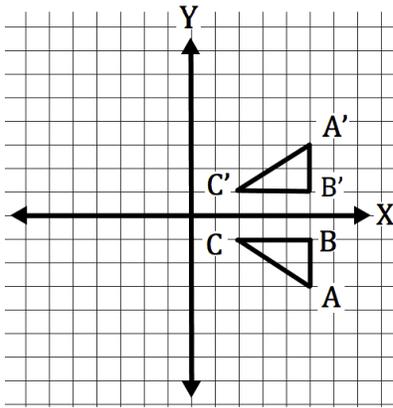
Identify the transformation from ABC to A'B'C'.

☐ a) 90° clockwise rotation

☐ b) 90° counter clockwise rotation

☐ c) Reflection across the y-axis

☐ d) Reflection across the x-axis

4. a transformation that changes the size of a figure, but not the shape

☐ a) translation

☐ b) rotation

☐ c) reflection

☐ d) dilation

5.
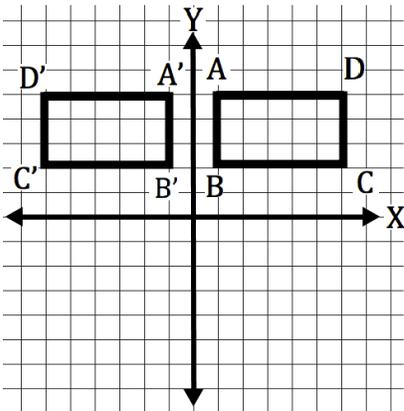
Identify the transformation from ABCD to A'B'C'D'.

☐ a) Translation

☐ b) Reflection across the x-axis

☐ c) Reflection across the y-axis

☐ d) 90° counter clockwise rotation

6. When you translate
(x-2 , y + 6) the figure will move _____.

☐ a) 2 units right and 6 units right

☐ b) 2 units left and 6 units down

☐ c) 2 units left and 6 units up

☐ d) 2 units left 6 units right

7. What does a translation do to an image?

☐ a) Turns it 90* clockwise

☐ c) Shrinks it

☐ b) Mirrors it

☐ d) Slides it

8.
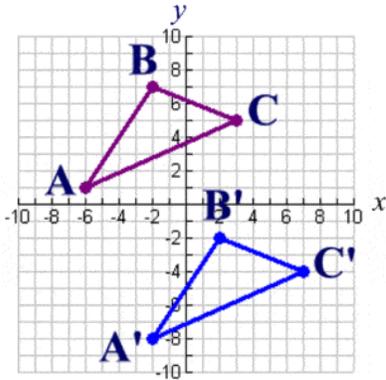
How is triangle ABC being translated to triangle A'B'C'?

☐ a) (x, y) --> (x - 8, y + 3)

☐ c) (x, y) --> (x + 8, y - 3)

☐ b) (x, y) -->(x - 4, y - 9)

☐ d) (x, y) --> (x+ 4, y - 9)

9.
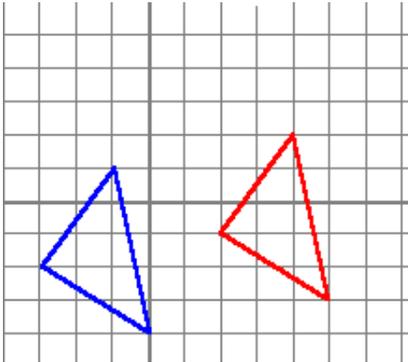
What transformation is happening to the red triangle to get to the blue triangle?

☐ a) Translation

☐ c) Reflection

☐ b) Rotation

☐ d) Dilation

10.

Which transformation is being used on Triangle PRQ?

☐ a) Reflection ☐ b) Dilation

☐ c) Rotation ☐ d) Translation

11.
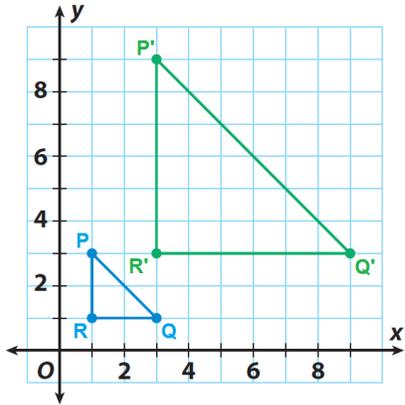
In the dilation shown, what is the scale factor used?

☐ a) -3 ☐ b) 1/3

☐ c) 3 ☐ d) 2

12.
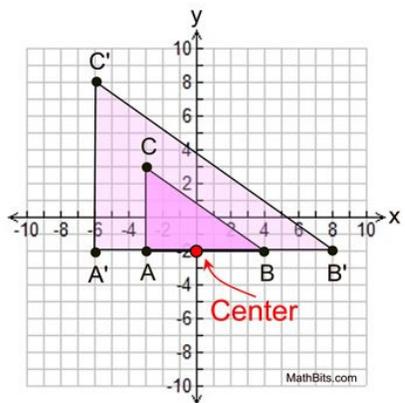
What is the scale factor being used in the dilation?

☐ a) 2 ☐ b) 1/2

☐ c) -2 ☐ d) 3

13.
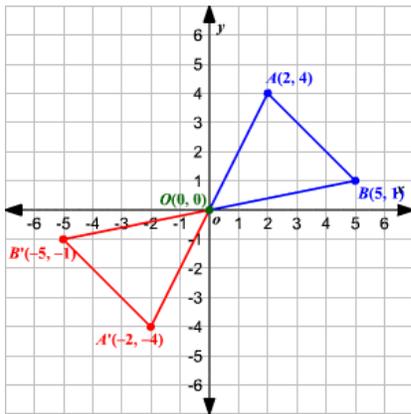
Which transformation is being demonstrated? [more than one answer!]

- [ ] a) Dilation with scale factor -1
- [ ] c) Reflection over y-axis
- [ ] b) Rotation by 180 degrees
- [ ] d) Translation 10 units to the left

14.
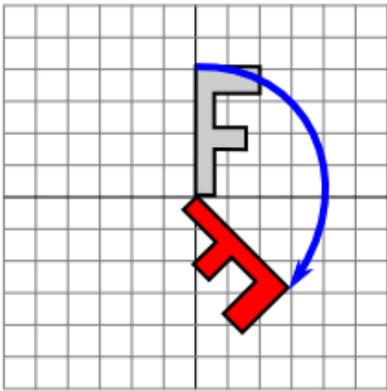
In the rotation demonstrated, what is the approximate directions provided?

- [ ] a) Rotate F, 90 degrees clockwise
- [ ] c) Rotate F, 135 degrees clockwise
- [ ] b) Rotate F, 90 degrees counter-clockwise
- [ ] d) Rotate F, 135 degrees counter-clockwise

15.
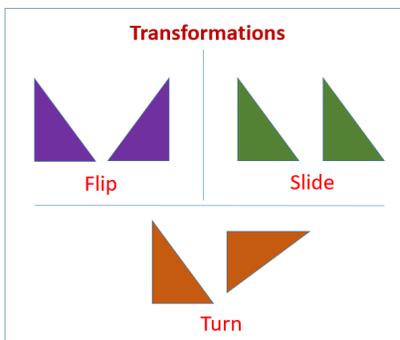
What are the mathematical terms for the transformations represented in this image?

- [ ] a) Rotation
- [ ] c) Dilation
- [ ] e) Shift
- [ ] b) Translation
- [ ] d) Reflection

16.

Graph the image of square *RSTU* after a dilation with a scale factor of $\frac{1}{4}$, centered at the origin.
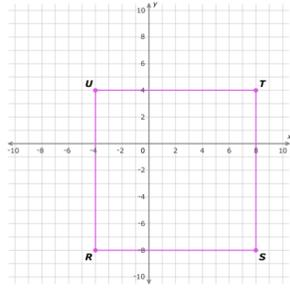
If you dilate the image using a scale factor of 1/4, what will the coordinate of T' be?

☐ a) T'(8,4)

☐ b) T'(2,1)

☐ c) T'(-2,-1)

☐ d) T'(32,16)

17.

Graph the image of △*UVW* after a rotation 180° counterclockwise around the origin.
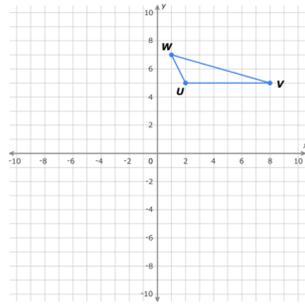
Rotate Triangle WUV 90 degrees counter-clockwise to determine which of the following coordinates are correct {3 answers}

☐ a) W' (-7,1)

☐ b) W' (-1,7)

☐ c) U' (-2,5)

☐ d) U' (-5,2)

☐ e) V' (-5,8)