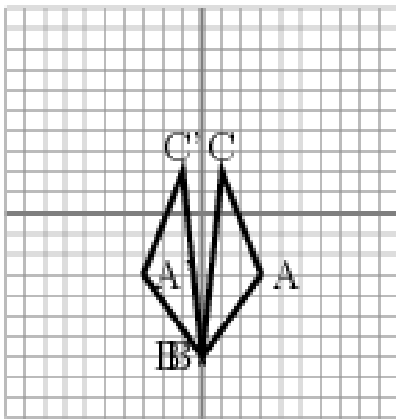


Name _____

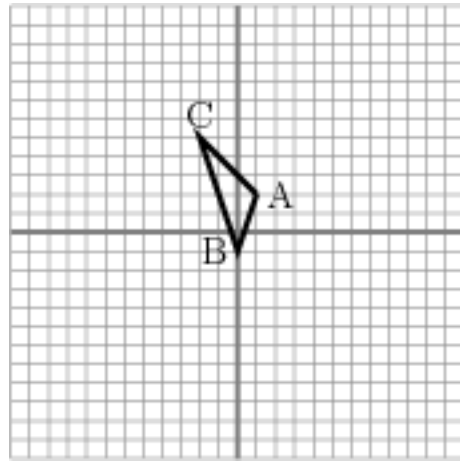
Transformations: Mixed Practice

1. Triangle ABC has coordinates A (-1, -3) B (-5, -6) C (-3, 2). The triangle is translated 6 right and 6 up. What are the coordinates of the new triangle?

2. Describe the transformation fully.

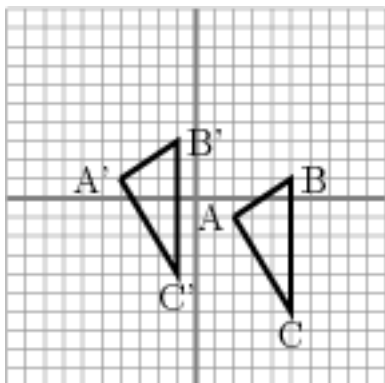


3. Dilate the figure by a scale factor of 2, centered at the origin.



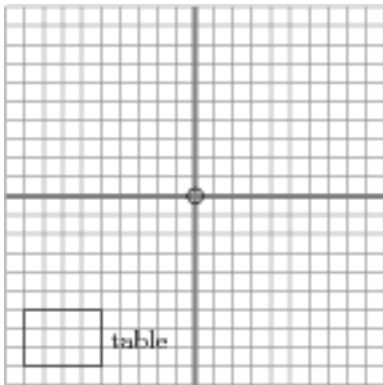
For #2-3, are the shapes that were transformed congruent or similar? Explain how you know.

4. a) Describe the transformation fully. b) Are the shapes congruent or similar? Explain how you know.



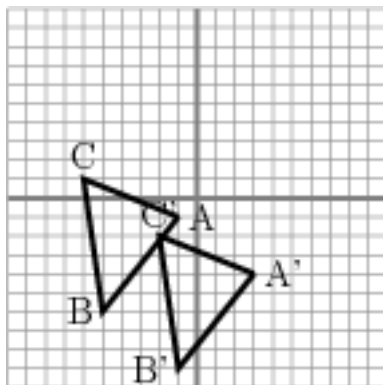
5. Triangle ABC has coordinates A (-1, -4) B (1, -1) C (4, -8). The triangle is translated 2 left and 5 up. What are the coordinates of the new triangle?

6. Flo Rida is eating dinner at a rotating restaurant that makes one clockwise revolution every hour. Flo Rida steps to the stationary center of the restaurant to take a phone call. Fifteen minutes later, Flo Rida turns back to find his table. Where should Flo Rida expect it to be?



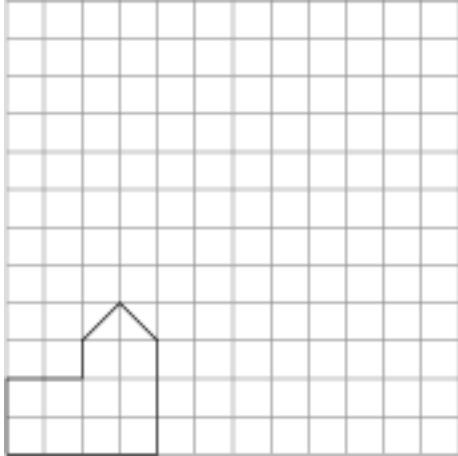
7.

- a. Describe the transformation fully. b) Are the shapes congruent or similar? Explain how you know.



b.

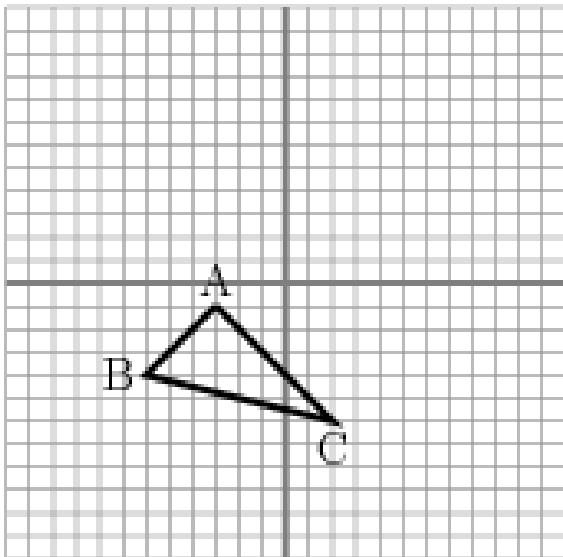
8. Andrew Luck is a young architect designing a building for a powerful client. Andrew Luck completes his model, and his client is not happy. "What is this, a center for ants?!" yells the client, "It has to be at least three times this size!" Help Andrew Luck to fulfill the request.



9. Triangle ABC has coordinates A (-2,1) B (2,6) C (-9,6). The triangle is reflected over the y-axis. What are the coordinates of the new triangle?

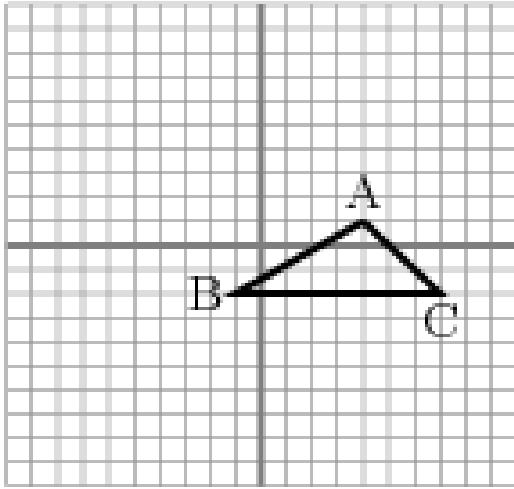
10. a) Dilate the figure by a scale factor of $\frac{1}{2}$, centered around the origin.

b) Are the shapes congruent or similar? Explain how you know.



11.

Translate the figure 4 left and 4 down and reflect it over the y-axis.



12. Emma Watson has a nephew who looks up to her. For Christmas, Emma Watson decides to get her a jacket that is exactly the same as Emma Watson's, only half the size. Sketch the outlines of Emma Watson's nephew's jacket

