

Name _____
Date _____
Mr./Ms. Chung

Title

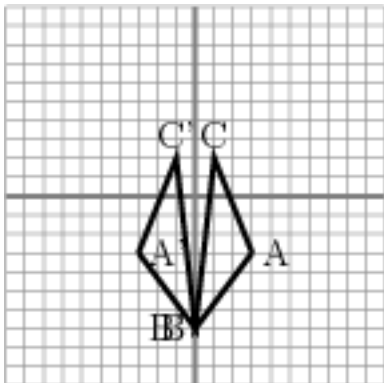
1. QUESTION:

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?

ANSWER: (5,3) (1, 0) (3,8)

2. QUESTION:

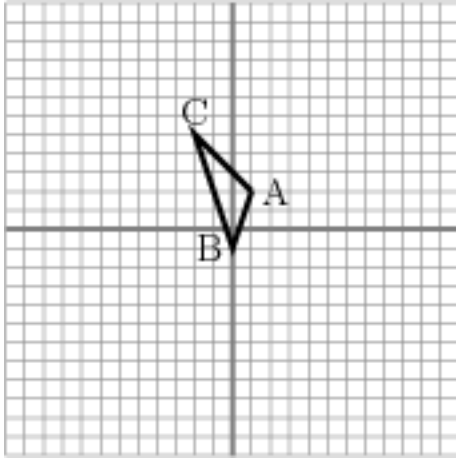
Describe the transformation.



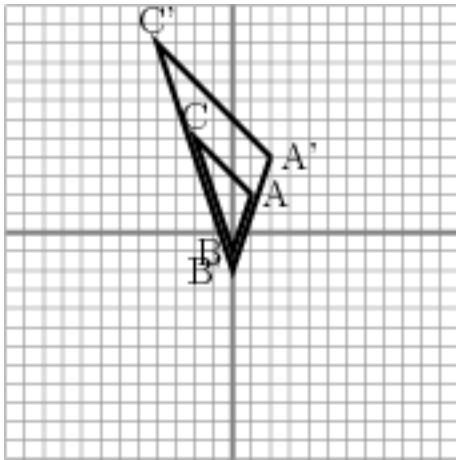
ANSWER: Reflect the figure over the y-axis. The triangles are congruent because they are the same size.

3. QUESTION:

Dilate the figure by a scale factor of 2.

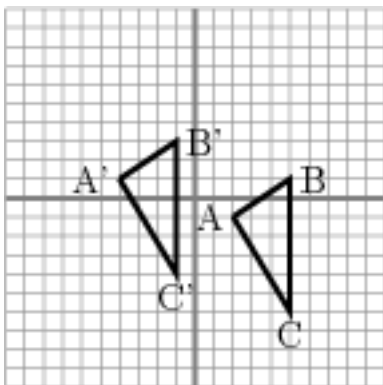


ANSWER: The triangles are similar because all sides of the original ABC were enlarged by the same scale factor.



4. QUESTION:

Describe the transformation.



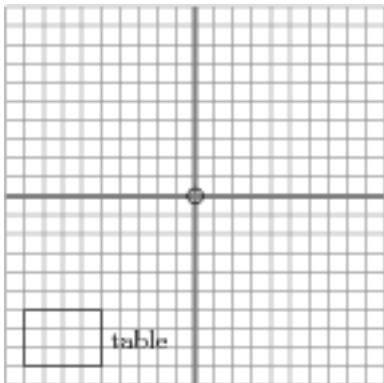
ANSWER: Translate the figure 6 left and 2 up. The triangles are congruent because they are the same size.

5. QUESTION:

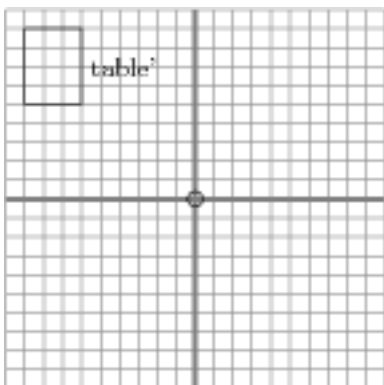
Triangle ABC has coordinates A (-1, -4) B (1, -1) C (4, -8). The triangle is translated 2 left and 5 up. What are the coordinates of the new triangle?

ANSWER: (-3,1) (-1,4) (2,-3)

6. QUESTION: 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?

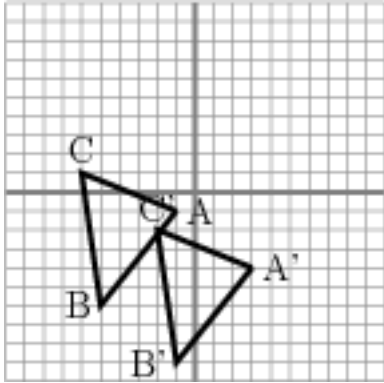


ANSWER:



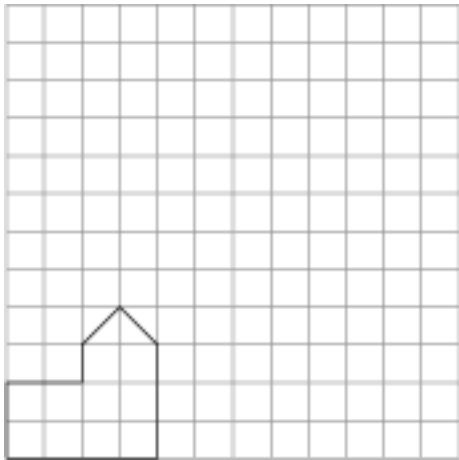
7. QUESTION:

Describe the transformation.

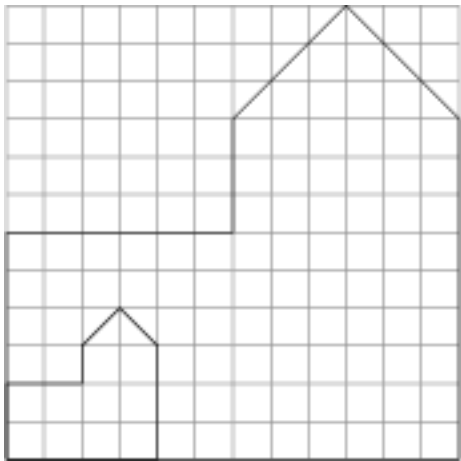


ANSWER: Translate the figure 4 right and 3 down. The triangles are congruent because they are the same size.

8. QUESTION: 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.



ANSWER:



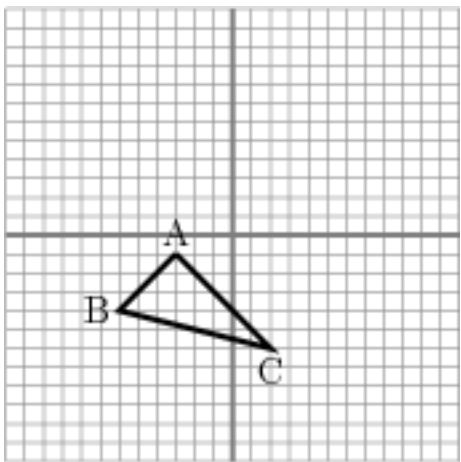
9. QUESTION:

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?

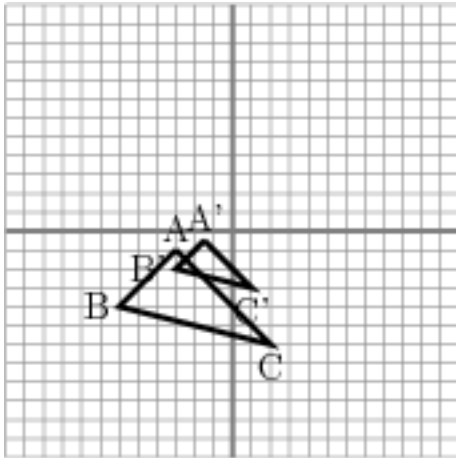
ANSWER: A' (2,1) B' (-2,6) C' (9,6)

10. QUESTION:

Dilate the figure by a scale factor of $\frac{1}{2}$.

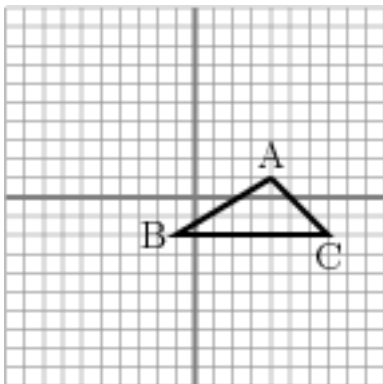


ANSWER: They triangles are similar because all the sides of ABC were shrunken by the same scale factor.

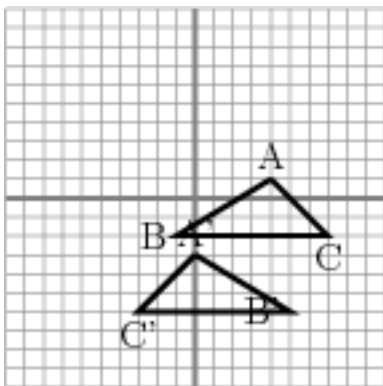


11. QUESTION:

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



ANSWER:



12. QUESTION: 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



ANSWER:

