

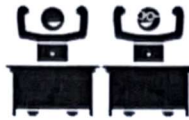
Name: **ANSWERS!** Class:



Communication



Successful Partnership



Encouragement



Solving Problem Together



Collaboration

Question 01

Step 1. Draw a triangle with the following vertices:  $A(2, 3)$ ;  $B(2, 5)$ ,  $C(4, 3)$

$\times 2$   $\times 2$   $\times 2$

Step 2. Dilate triangle  $ABC$  by a factor of 2 about the origin and draw triangle  $A'B'C'$

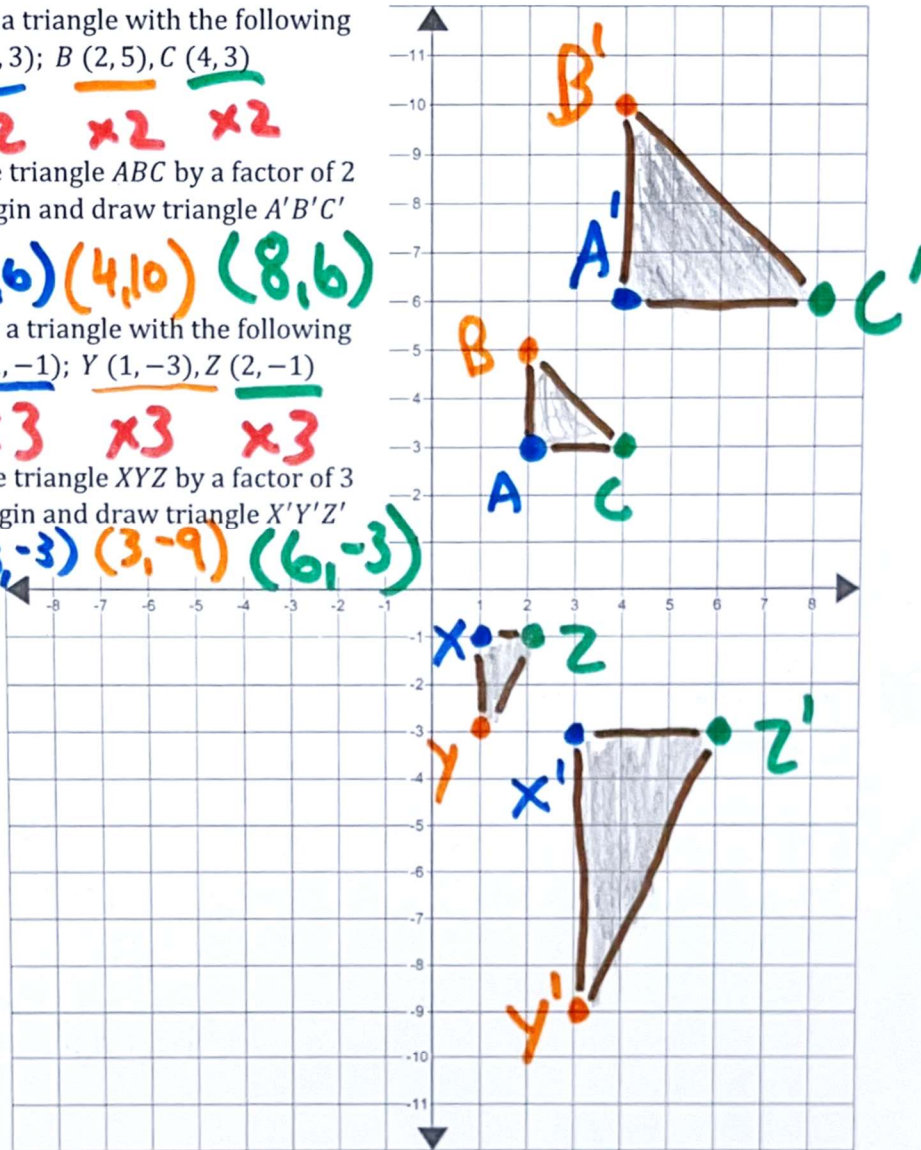
$(4, 6)$   $(4, 10)$   $(8, 6)$

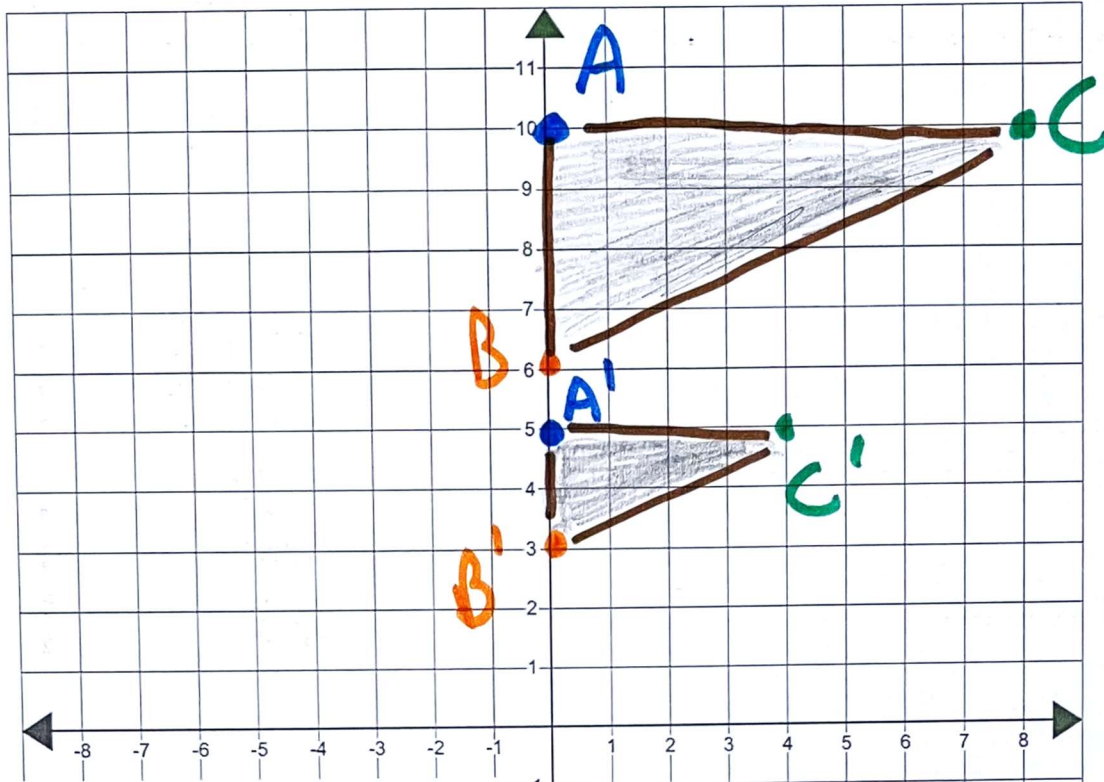
Step 3. Draw a triangle with the following vertices:  $X(1, -1)$ ;  $Y(1, -3)$ ,  $Z(2, -1)$

$\times 3$   $\times 3$   $\times 3$

Step 4. Dilate triangle  $XYZ$  by a factor of 3 about the origin and draw triangle  $X'Y'Z'$

$(3, -3)$   $(3, -9)$   $(6, -3)$





Step 1. Draw a triangle with the following vertices:  $A(0, 10)$ ;  $B(0, 6)$ ,  $C(8, 10)$

$\times 0.5$   $\times 0.5$   $\times 0.5$

Step 2. Dilate triangle  $ABC$  by a factor of  $0.5$  about the origin and draw triangle  $A'B'C'$

$(0, 5)$   $(0, 3)$   $(4, 5)$

Step 3. Draw a triangle with the following vertices:  $X(1, -2)$ ;  $Y(1, -3)$ ,  $Z(2, -3)$

$\times 3$   $\times 3$   $\times 3$

Step 4. Dilate triangle  $XYZ$  by a factor of  $3$  about the origin and draw triangle  $X'Y'Z'$

$(3, -6)$   $(3, -9)$   $(6, -9)$

