

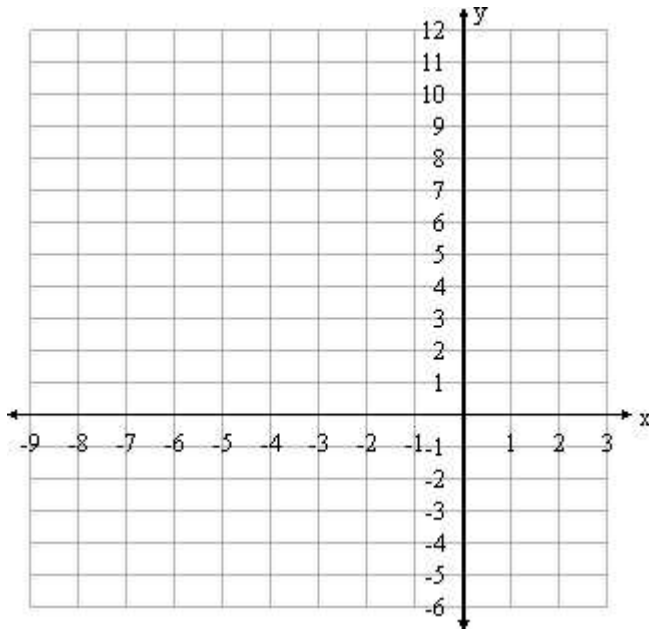
## Algebra 6-7 Size Change

1. After a 60% size change, the picture of Mr. Kwasny has made him appear 14 cm tall. How was he in the original picture? \_\_\_\_\_

2. On the graph to the right, graph  $\triangle ABC$  with vertices at  
 $A = (3, -6)$   
 $B = (-6, 0)$   
 $C = (-9, 12)$ .

Graph  $\triangle ABC$  under a size change of magnitude  $\frac{1}{3}$  and give its new coordinates below.

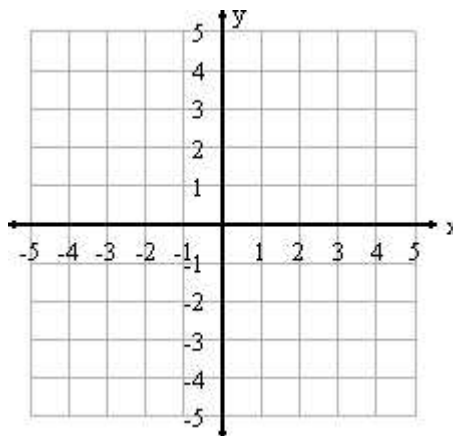
$A' =$  \_\_\_\_\_  $B' =$  \_\_\_\_\_  $C' =$  \_\_\_\_\_



3. If  $\triangle CWH$  has a size change of  $-4$ , will  $\triangle CWH$  be an expansion, contraction, or neither? \_\_\_\_\_

4. After a size change of  $-\frac{1}{2}$ ,  $A'$  is located at  $(-6, 2)$ . What were the coordinates of  $A$ ? \_\_\_\_\_

5. Ann now makes  $2\frac{1}{2}$  times as much as she did when she first started her job. If she now makes \$60,000, how much did she make when she started? \_\_\_\_\_



6. On the graph to the right, graph the points  
 $A = (4, 4)$   $B = (2, -2)$   $C = (-4, 4)$

- a.) Graph  $\triangle ABC$  under a size change of  $\frac{1}{2}$ .
- b.) Graph  $\triangle ABC$  under a size change of  $-\frac{1}{2}$ .