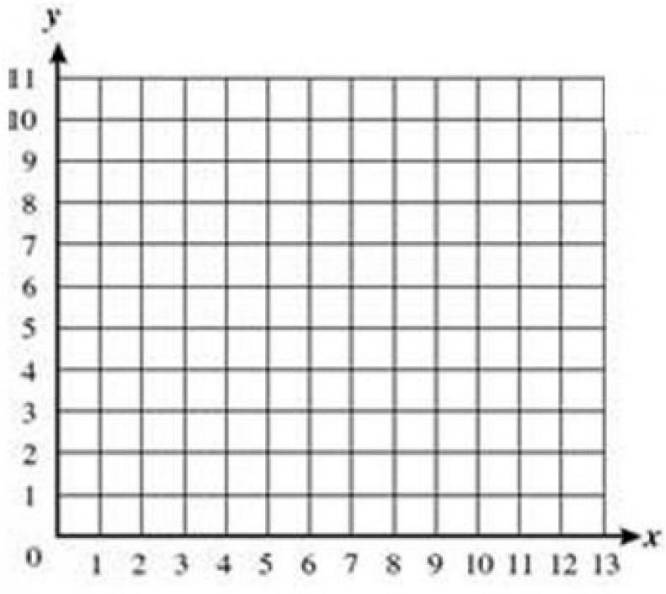
Name:_____ Date:_____ Period:_____

**Direct Variation Connections**




**1.** Graph the triangle ABC with vertices A(2,4), B(6,5), and C (5, 1)

**2.** Change all the vertices of your triangle by a scale factor of 2 and label A', B', and C'. Write the new vertices below and graph the new triangle on the same graph.

**3.** What do you notice about the triangles?

**4.** What transformation describes the triangles?

**5.** The triangles are also an example of _____ figures. _____ figures have

congruent _____ and _____ sides.

**6.** Draw one line between points A and A'. Then draw another line between B and B'. Draw a third line between C and C'.

What do you notice about the lines?

Why do you think it's true?

**7.** Write an equation for each of the 3 lines?

**8.** In a direct variation, each point on the line is _____