NAME _____ DATE _____ PERIOD _____
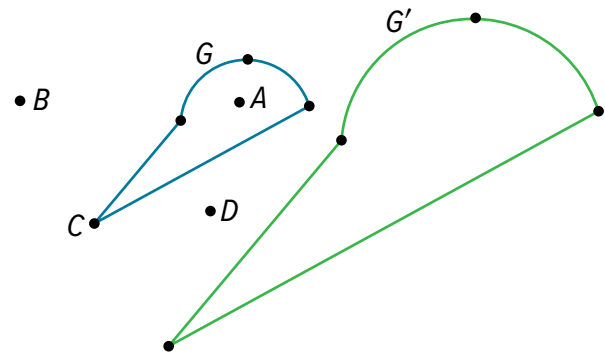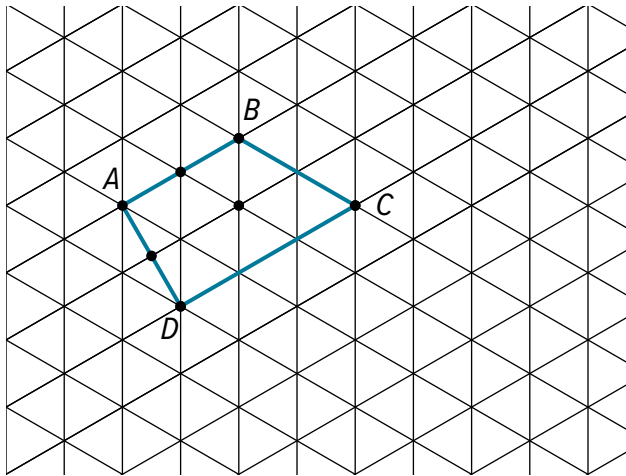
Practice
Scale of the Solar System

1. Figure *G′* is the image of figure *G* by a dilation with scale factor 2. Where is the center of this dilation?
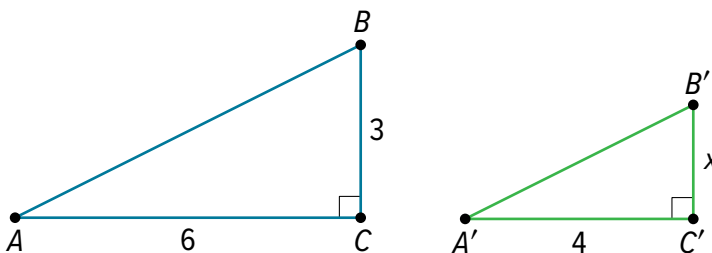
(A.) Point *A*
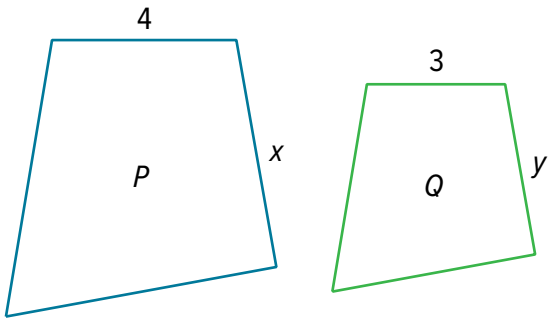
(B.) Point *B*

(C.) Point *C*

(D.) Point *D*

2. Dilate quadrilateral *ABCD* using center *A* and scale factor $\frac{1}{2}$.

3. Triangle *ABC* is dilated. The image is *A′B′C′*, find the value of *x*.

4. Polygon *Q* is a scaled copy of Polygon *P*.
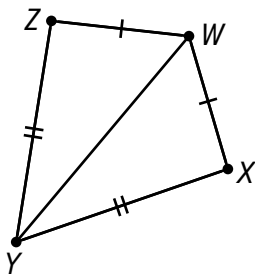

The value of *x* is 6, what is the value of *y*? **(Lesson 3-1)**

A. $\frac{7}{2}$

B. 4

C. $\frac{9}{2}$

D. 5

5. Solve each equation. **(Lesson 3-1)**

a. $\frac{2}{5} = \frac{x}{20}$

b. $\frac{2}{3} = \frac{x}{10}$

NAME _____ DATE _____ PERIOD _____

6. *WXYZ* is a kite. Angle *WXY* has a measure of 94 degrees and angle *ZYX* has a measure of 60 degrees. Find the measure of angle *ZWY*. **(Lesson 2-9)**

7. The semaphore alphabet is a way to use flags to signal messages. Here's how to signal the letter U. Describe a transformation that would take the right hand flag to the left hand flag. **(Lesson 1-13)**

U