### Lesson 2 Practice Problems

1. Figure $G^{′}$ is the image of figure $G$ by a dilation with scale factor 2. Where is the center of this dilation?
* 
	1. Point $A$
	2. Point $B$
	3. Point $C$
	4. Point $D$
1. Dilate quadrilateral $ABCD$ using center $A$ and scale factor $\frac{1}{2}$.
* 
1. Triangle $ABC$ is dilated. The image is $A^{′}B^{′}C^{′}$, find the value of $x$.
* 
* 
1. Polygon $Q$ is a scaled copy of Polygon $P$.
* 
* The value of $x$ is 6, what is the value of $y$?
	1. $\frac{7}{2}$
	2. 4
	3. $\frac{9}{2}$
	4. 5
* (From Unit 3, Lesson 1.)
1. Solve each equation.
	1. $\frac{2}{5}=\frac{x}{20}$
	2. $\frac{2}{3}=\frac{x}{10}$
* (From Unit 3, Lesson 1.)
1. $WXYZ$ 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 $ZWY$.
* 
* (From Unit 2, Lesson 9.)
1. 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.
* U
* 
* (From Unit 1, Lesson 13.)



© CC BY 2019 by Illustrative Mathematics®