### Lesson 1 Practice Problems

1. Polygon $Q$ is a scaled copy of Polygon $P$.
* 
	1. The value of $x$ is 6, what is the value of $y$?
	2. What is the scale factor?
1. Figure $f$ ​is a scaled copy of Figure $e$ .
* We know:
	+ $AB=6$
	+ $CD=3$
	+ $XY=4$
	+ $ZW=a$
* Select **all** true equations.
* 
	1. $\frac{6}{3}=\frac{4}{a}$
	2. $\frac{6}{4}=\frac{3}{a}$
	3. $\frac{3}{4}=\frac{6}{a}$
	4. $\frac{6}{3}=\frac{a}{4}$
	5. $\frac{6}{4}=\frac{a}{3}$
	6. $\frac{3}{4}=\frac{a}{6}$
1. Solve each equation.
	1. $\frac{2}{5}=\frac{x}{15}$
	2. $\frac{4}{3}=\frac{x}{7}$
	3. $\frac{7}{5}=\frac{28}{x}$
	4. $\frac{11}{4}=\frac{5}{x}$
2. Select theshape that has 180 degree rotational symmetry.
	1. Rhombus
	2. Trapezoid
	3. Isosceles trapezoid
	4. Quadrilateral
* (From Unit 2, Lesson 14.)
1. Name a quadrilateral in which the diagonal is also a line of symmetry. Explain how you know the diagonal is a line of symmetry.
* (From Unit 2, Lesson 14.)
1. In isosceles triangle $DAC$, $AD$ is congruent to $AC$ and $AB$ is an angle bisector of angle $DAC$. How does Kiran know that $AB$ is a perpendicular bisector of segment $CD$?
* 
* (From Unit 2, Lesson 8.)
1. In the figure shown, lines $f$ and $g$ are parallel. Select **all** angles that are congruent to angle 1.
* 
	1. 1
	2. 2
	3. 3
	4. 4
	5. 5
	6. 6
	7. 7
	8. 8
* (From Unit 1, Lesson 20.)



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