### Lesson 11 Practice Problems

1. Which of these constructions would construct a line of reflection that takes the point $A$ to point $B$?
	1. Construct the perpendicular bisector of segment $AB$.
	2. Construct a line through $B$ perpendicular to segment $AB$.
	3. Construct the line passing through $A$ and $B$.
	4. Construct a line parallel to line $AB$.
2. A point $P$ stays in the same location when it is reflected over line $ℓ$.
* What can you conclude about $P$?
* 
*
1. Lines $ℓ$ and $m$ are perpendicular with point of intersection $P$.
* Noah says that a 180 degree rotation, with center $P$, has the same effect on points in the plane as reflecting over line $m$. Do you agree with Noah? Explain your reasoning.
* $m⊥ℓ$
* 
*
1. Here are 4 triangles that have each been transformed by a different transformation. Which transformation is *not* a rigid transformation?
	1. 
	2. 
	3. 
	4. 
* (From Unit 1, Lesson 10.)
1. There is a sequence of rigid transformations that takes $A$ to $A^{′}$, $B$ to $B^{′}$, and $C$ to $C^{′}$. The same sequence takes $D$ to $D^{′}$. Draw and label $D^{′}$:
* 
* (From Unit 1, Lesson 10.)
1. Here are 3 points in the plane. Explain how to determine whether point $C$ is closer to point $A$ or point $B$.
* 
* (From Unit 1, Lesson 9.)
1. Diego says a quadrilateral with 4 congruent sides is always a regular polygon. Mai say it never is one. Do you agree with either of them?
* (From Unit 1, Lesson 7.)



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