## Unit 7 Lesson 1 Cumulative Practice Problems

1. Here are questions about two types of angles.
	1. Draw a right angle. How do you know it's a right angle? What is its measure in degrees?
	2. Draw a straight angle. How do you know it’s a straight angle? What is its measure in degrees?
2. An equilateral triangle’s angles each have a measure of 60 degrees.
	1. Can you put copies of an equilateral triangle together to form a straight angle? Explain or show your reasoning.
	2. Can you put copies of an equilateral triangle together to form a right angle? Explain or show your reasoning.
3. Here is a square and some regular octagons.
* In this pattern, all of the angles inside the octagons have the same measure. The shape in the center is a square. Find the measure of one of the angles inside one of the octagons.
* 
1. The height of the water in a tank decreases by 3.5 cm each day. When the tank is full, the water is 10 m deep. The water tank needs to be refilled when the water height drops below 4 m.
	1. Write a question that could be answered by solving the equation $10−0.035d=4$.
	2. Is 100 a solution of $10−0.035d>4$? Write a question that solving this problem could answer.
* (From Unit 6, Lesson 17.)
1. Use the distributive property to write an expression that is equivalent to each given expression.
	1. $-3(2x−4)$
	2. $0.1(-90+50a)$
	3. $-7(-x−9)$
	4. $\frac{4}{5}(10y+-x+-15)$
* (From Unit 6, Lesson 18.)
1. Lin’s puppy is gaining weight at a rate of 0.125 pounds per day.  Describe the weight gain in days per pound.
* (From Unit 2, Lesson 3.)



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