## Unit 3 Lesson 9 Cumulative Practice Problems

1. Solve each equation.
	1. $4x=-28$
	2. $x−-6=-2$
	3. $-x+4=-9$
	4. $-3x+7=1$
	5. $25x+-11=-86$
2. Here is an equation $2x+9=-15$. Write three different equations that have the same solution as $2x+9=-15$. Show or explain how you found them.
3. Select **all** the equations that match the diagram.
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	1. $x+5=18$
	2. $18÷3=x+5$
	3. $3(x+5)=18$
	4. $x+5=\frac{1}{3}⋅18$
	5. $3x+5=18$
* (From Unit 3, Lesson 3.)
1. There are 88 seats in a theater. The seating in the theater is split into 4 identical sections. Each section has 14 red seats and some blue seats.
	1. Draw a tape diagram to represent the situation.
	2. What unknown amounts can be found by by using the diagram or reasoning about the situation?
* (From Unit 3, Lesson 2.)
1. Match each story to an equation.
	1. A stack of nested paper cups is 8 inches tall. The first cup is 4 inches tall and each of the rest of the cups in the stack adds $\frac{1}{4}$ inch to the height of the stack.
	2. A baker uses 4 cups of flour. She uses $\frac{1}{4}$ cup to flour the counters and the rest to make 8 identical muffins.
	3. Elena has an 8-foot piece of ribbon. She cuts off a piece that is $\frac{1}{4}$ of a foot long and cuts the remainder into four pieces of equal length.
	4. $\frac{1}{4}+4x=8$
	5. $4+\frac{1}{4}x=8$
	6. $8x+\frac{1}{4}=4$
* (From Unit 3, Lesson 4.)



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