WRITING & SOLVING INEQUALITIES – Day 1
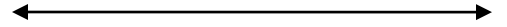
Which is NOT a solution of the inequality $10 - 3x \geq -8$?

   A. -2

   B. 0

   C. 6

   D. 10

Use this table to help you write inequalities from word problems.

$<$	$>$	$\leq$	$\geq$
Less than **Fewer**	**More than** **Over** **Exceed**	**Up to** **Maximum** **At most** **No more than**	**At least** **No less than**

EXAMPLES: Write an inequality for each situation.

1. Two-hundred decreased by twice a number is at least 30.	2. Six less than 3 times a number is no more than 42.
3. Three times a number exceeds the sum of the number and 10.	4. Forty percent of a number is fewer than 18.

EXAMPLES: Write an inequality for each situation and solve.

5. You have at most $60 to spend on clothing. You need a pair of jeans that cost $22, and you can spend the rest on t-shirts that cost $8 each. How many shirts can you afford to buy?

Inequality: _____

6. To rent a certain vehicle, Hertz charges $55.00 a day with unlimited miles. The cost of renting a similar vehicle at Avis is $38.00 a day plus $0.20 per mile. For what number of miles is the cost at Hertz less than the cost at Avis?

Inequality: _____

7. A sales associate in a shoe store earns $325 per week, plus a commission equal to 4% of her sales. This week her goal is to earn at least $475. How many dollars' worth of shoes must she sell to reach her goal?

Inequality: _____