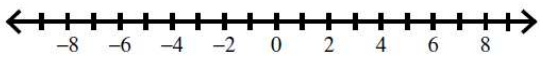
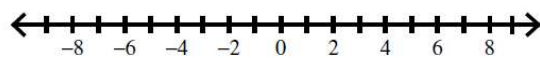


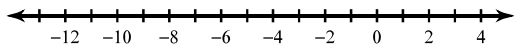
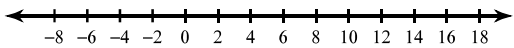
Name:	Date:
Topic:	Class:

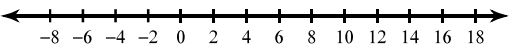
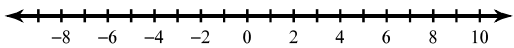
Main Ideas/Questions	Notes
<b>Absolute Value Inequalities</b>	<b>CASE 1</b>
	GREATER THAN/GREATER THAN OR EQUAL TO
	<b>Example:</b> $ x  \geq 7$ 
	Interval Notation:
<b>CASE 2</b>	LESS THAN/LESS THAN OR EQUAL TO
	<b>Example:</b> $ x  \leq 4$ 
	Interval Notation:

What does this mean?

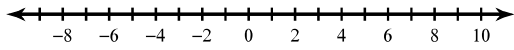
- |   |   |
|---|---|
| <b>STEPS TO SOLVE Absolute Value Inequalities</b> | ① <b>ISOLATE</b> the absolute value expression.   |
|   | ② <b>CREATE TWO CASES.</b> Use the "KISS" Method (Keep it, switch, switch) to set up the two cases. |
|   | ③ <b>SOLVE</b> both inequalities.   |
|   | ④ <b>GRAPH</b> your solutions and write your answer in interval notation.                           |

**Directions:** Solve, graph, and write each solution in interval notation.

<p><b>1.</b> <math> x + 6  &gt; 7</math></p>  <p>Interval Notation:</p>	<p><b>2.</b> <math> 2v - 3  &lt; 19</math></p>  <p>Interval Notation:</p>
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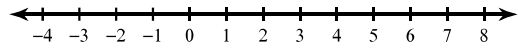
<p><b>3.</b> <math>\left  -5 + \frac{k}{3} \right  \geq 1</math></p>  <p>Interval Notation:</p>	<p><b>4.</b> <math> 7 - 4n  \leq 27</math></p>  <p>Interval Notation:</p>
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5.  $\frac{|q-1|}{4} \geq 2$



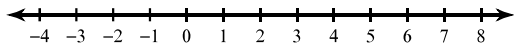
Interval Notation:

6.  $|8a+10|+3 < 25$



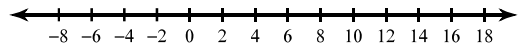
Interval Notation:

7.  $-10|2r-1| \leq -60$



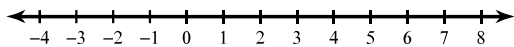
Interval Notation:

8.  $9|3-k|-5 \geq 67$



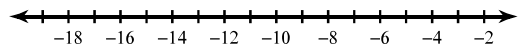
Interval Notation:

9.  $6|-5n|+7 > 37$



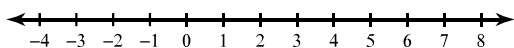
Interval Notation:

10.  $-1-4|x+9| \leq -21$



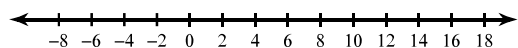
Interval Notation:

11.  $3|8x+5|-9 \geq 24$



Interval Notation:

12.  $4|9-3n|-9 < 75$



Interval Notation: