

Name: _____

Lesson SE – 5: Supplement



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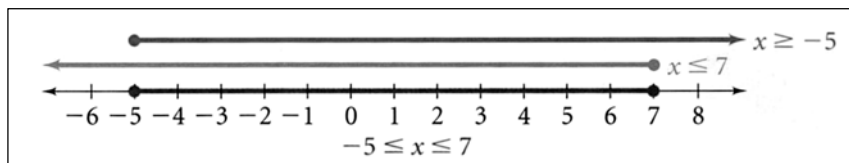
Writing Compound Inequalities

All numbers that are at least -2 and at most 4.		Temperatures above 32° but not as high as 40°.	
<i>and</i>		<i>2 Statements</i>	
		<i>3-Sided Statement</i>	

Solving Inequalities

Two inequalities joined by *and* / *or* are compound inequalities.
 You can write $x \geq -5$ and $x \leq 7$ as $-5 \leq x \leq 7$.

***If they are joined by *and*, then both statements must be true!**



Practice: Solve and Graph

1. $-6 \leq 3x < 15$	2. $-3 \leq 2x - 1 < 7$	3. $7 < 3n + 1 \leq 13$
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1.	
2.	
3.	

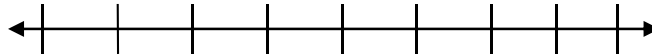
A compound inequality joined by *or* is true if either statement is true.

1. All real numbers less than -3 and greater than 7.

Compound Statement

or

Graphed Solution

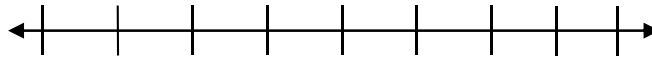


2. Discounted fares are available to kids 12 and under and adults over 60.

Compound Statement

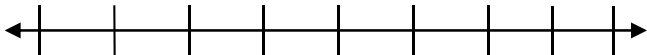
or

Graphed Solution

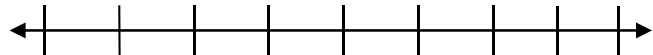


Mixed Practice

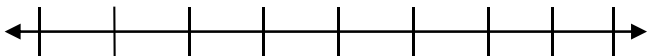
1. $-1 < 4x + 7 \leq 11$



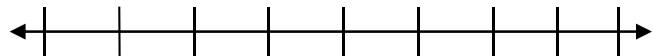
2. $3c + 4 > 13$ or $6c - 1 < 11$



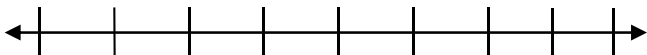
3. $-2 < -3x + 4 < 4$



4. $7 \leq 3 - 2p < 11$



5. $-3 \leq j + 2 < 7$



6. $\frac{2x + 4}{2} > 5$ or $c + 1 < 12$

