

LESSON
11-3

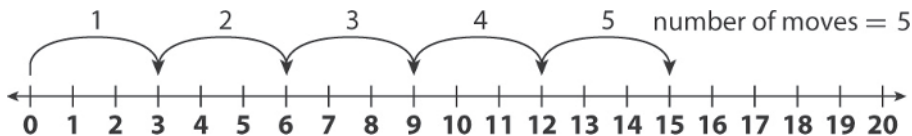
Multiplication and Division Equations

Reteach

Number lines can be used to solve multiplication and division equations.

Solve: $3n = 15$

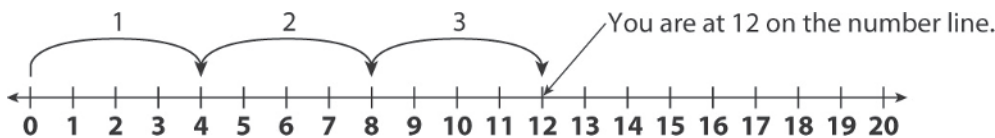
How many moves of 3 does it take to get to 15?



$n = 5$ Check: $3 \cdot 5 = 15 \checkmark$

Solve: $\frac{n}{3} = 4$

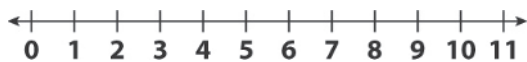
If you make 3 moves of 4, where are you on the number line?



$n = 12$ Check: $12 \div 3 = 4 \checkmark$

Show the moves you can use to solve each equation. Then give the solution to the equation and check your work.

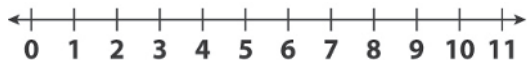
1. $3n = 9$



Solution: $n = \underline{\quad}$

Show your check:

2. $\frac{n}{2} = 4$



Solution: $n = \underline{\quad}$

Show your check:

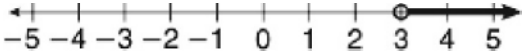
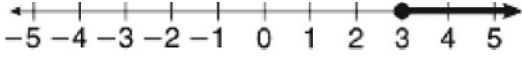
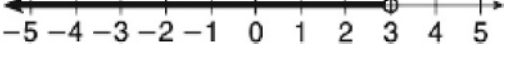
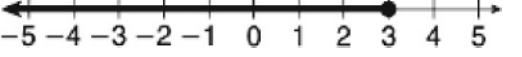
LESSON
11-4

Writing Inequalities

Reteach

An equation is a statement that says two quantities are equal. An **inequality** is a statement that says two quantities are **not** equal.

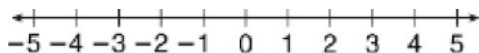
A **solution of an inequality** that contains a variable is any value or values of the variable that makes the inequality true. All values that make the inequality true can be shown on a graph.

Inequality	Meaning	Solution of Inequality
$x > 3$	All numbers <i>greater than</i> 3	 <p>The <i>open circle</i> at 3 shows that the value 3 is not included in the solution.</p>
$x \geq 3$	All numbers <i>greater than or equal to</i> 3	 <p>The <i>closed circle</i> at 3 shows that the value 3 is included in the solution.</p>
$x < 3$	All numbers <i>less than</i> 3	
$x \leq 3$	All numbers <i>less than or equal to</i> 3	

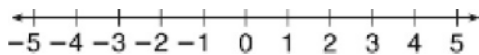
Graph the solutions of each inequality.

1. $x > -4$

- Draw an open circle at -4 .
- Read $x > -4$ as “ x is greater than -4 .”
- Draw an arrow to the right of -4 .

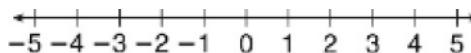


3. $a > -1$

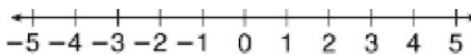


2. $x \leq 1$

- Draw a closed circle at 1.
- Read $x \leq 1$ as “ x is less than or equal to 1.”
- Draw an arrow to the left of 1.



4. $y \leq 3$



Write an inequality that represents each phrase.

5. The sum of 2 and 3 is less than y .

6. The sum of y and 2 is greater than or equal to 6.
