Wed. ET

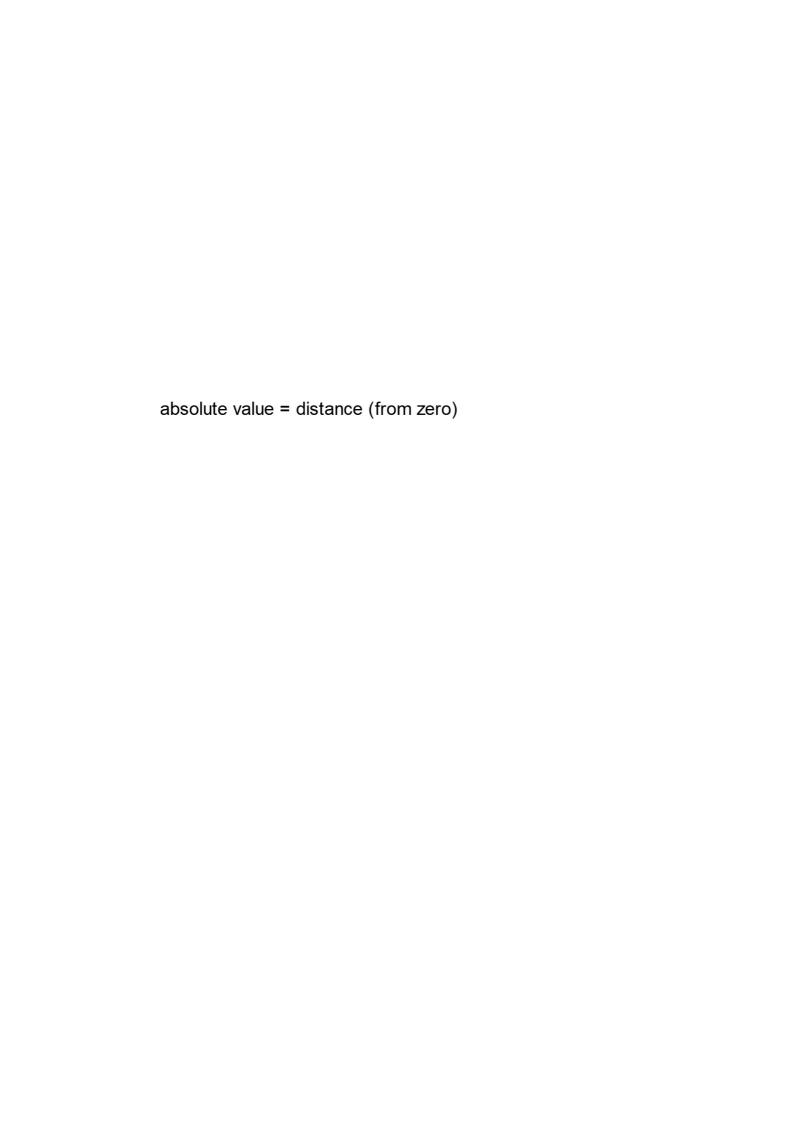
7.
$$\frac{3}{3} < \frac{3w}{3}$$
 on $\frac{3w^2}{3} = \frac{9}{3}$

1 < w or $w \ge 3$
 $w > 1$

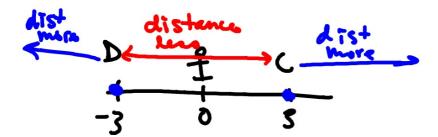
Algebra 1 5.5 Solve and graph absolute value inequalities

inequality from
$$\frac{1}{5}$$
 absolute value less than $\frac{1}{5}$ = $\frac{1}{5}$ greater than $\frac{1}{5}$ number line & distance whiteboards $\frac{1}{-3}$ = $\frac{3}{5}$ Gr. 6-7 standard

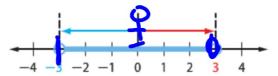
$$|(3-4)|$$
 $|-3|=3$

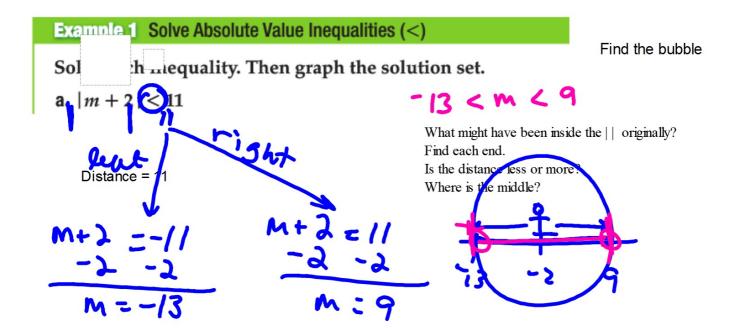


Number line stand 3 steps away

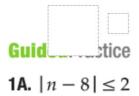


Where is 3 away? Where is closer than 3? Where is farther than 3? **Absolute Value Inequalities (<)** The inequality |x| < 3 means that the distance between x and 0 is less than 3.

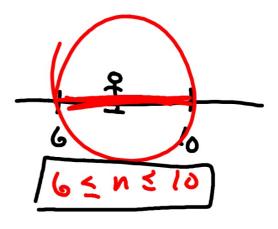




$$9. | r+1| \leq 3$$
 $r+1 = -3$
 $r+1 = 3$
 $r=3$
 $r=1$
 $r=3$
 $r=1$



What could have been inside? Find each end Is the distance less or more? What is in the middle?



19.
$$\left| -2c - 3 \right| > -4$$



NS

What could have been inside? :(
Find each end
Is the distance less or more?
What is in the middle?

PT

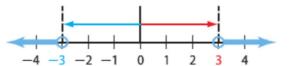
Real-World Example 2 Apply Absolute Value Inequalities

INTERNET A recent survey showed that 65% of young adults watched online video clips. The margin of error was within 3 percentage points. Find the range of young adults who use video sharing sites.

GuidedPractice

2. CHEMISTRY The melting point of ice is 0°C. During a chemistry experiment, Jill observed ice melting within 2°C of this measurement. Write the range of temperatures that Jill observed.

2 Absolute Value Inequalities (>) The inequality |x| > 3 means that the distance between x and 0 is greater than 3.





Solve $|3n + 6| \ge 12$ Then graph the solution set.

What could have been inside? Find each end
Is the distance less or more?
What is a the middle?

distance = 12

$$\frac{3n+6=-12}{3n=-18}$$

$$1=-63$$

$$\frac{3n+b}{3} = \frac{12}{3} = \frac{4}{3} =$$

5.5 9-29₀ p. 314

Solve each	inequality.	Then graph
3A.	7	

What could have been inside? Find each end Is the distance less or more? What is in the middle?



What could have been inside? :(
Find each end
Is the distance less or more?
What is in the middle?