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I. Graph the following on a number line

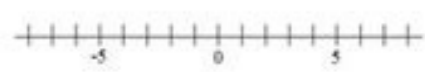
a)  $x > 5$



b)  $2x \leq 4$



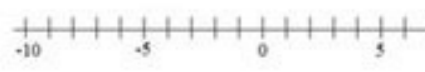
c)  $3x + 2 < 9$



d)  $x = -4$



e)  $-3x > 6$



f)  $-5 < x \leq 1$



II. Absolute Value: Solve and graph the following

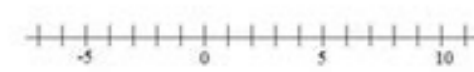
a)  $|x + 3| < 6$



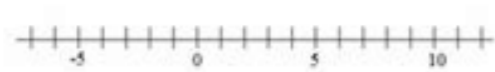
b)  $|3x| < 18$



c)  $2x + 1 \geq 6$



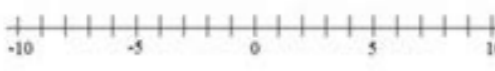
d)  $|2x + 3| < 4$



e)  $|x - 3| + 4 \geq 9$



f)  $|x + 7| = 1$



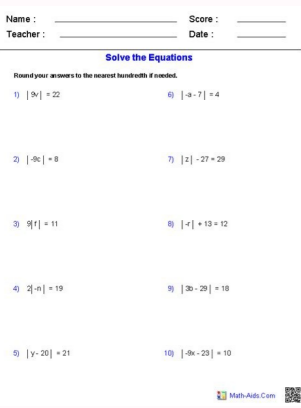
Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Linear Equations Worksheet

Solve the equations.

<p><b>1 a.</b> <math>8 = \frac{z}{6}</math></p>	<p><b>1 b.</b> <math>c + 1 = 1</math></p>
<p><b>2 a.</b> <math>11 = \frac{x}{8}</math></p>	<p><b>2 b.</b> <math>2 + y = 11</math></p>
<p><b>3 a.</b> <math>b - 11 = 11</math></p>	<p><b>3 b.</b> <math>c + 5 = 5</math></p>
<p><b>4 a.</b> <math>5z = 4</math></p>	<p><b>4 b.</b> <math>5 - b = 1</math></p>
<p><b>5 a.</b> <math>5 = 9s</math></p>	<p><b>5 b.</b> <math>3 = 7p</math></p>
<p><b>6 a.</b> <math>11 = p + 1</math></p>	<p><b>6 b.</b> <math>\frac{c}{11} = 2</math></p>

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Name \_\_\_\_\_  
Date \_\_\_\_\_ Period \_\_\_\_\_

Solve each equation.

- 1)  $|6m| = 42$
- 2)  $|-6x| = 30$
- 3)  $|k - 10| = 3$
- 4)  $\left|\frac{x}{7}\right| = 3$
- 5)  $|7 + p| = 7$
- 6)  $|-3p| = 15$
- 7)  $7|n| = 56$
- 8)  $\frac{|m|}{5} = 3$
- 9)  $-3|p| = -12$
- 10)  $|m| + 2 = 11$
- 11)  $|n| + 1 = 2$
- 12)  $\frac{|x|}{7} = 5$
- 13)  $\frac{|a - 5|}{8} = 5$
- 14)  $4|n + 8| = 56$
- 15)  $|7m| + 3 = 73$
- 16)  $\left|\frac{x}{7}\right| - 8 = -7$
- 17)  $\frac{|-9 + v|}{8} = 3$
- 18)  $-10|v + 2| = -70$

## Solving One-Step Inequalities by Multiplying/Dividing

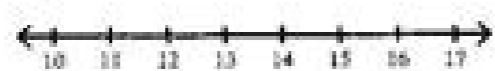
Period \_\_\_\_\_

Solve each inequality and graph its solution.

1)  $-5x \geq 25$



2)  $\frac{n}{4} \leq 3$



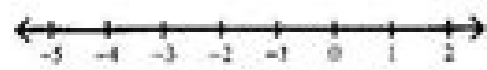
3)  $2n > 2$



4)  $\frac{n}{4} \leq -\frac{1}{4}$



5)  $-3x > 0$



6)  $\frac{m}{4} \leq -2$



7)  $-3n > 15$



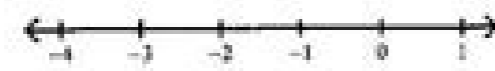
8)  $-3v > 45$



9)  $8a < 96$



10)  $10b \leq -10$



11)  $\frac{b}{6} > -3$



12)  $\frac{x}{5} \leq 3$



## 2.3 solving absolute value inequalities worksheet with answers.

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This segment has an endless collection of equation worksheets based on solving one-step, two-step and multi-step equations; rearranging literal equations, writing the equation of a line in various forms; graphing linear equation and more. High-school topics such as quadratic equation, absolute value equation and systems of equations are also featured here. Practice solving the equations by using the various download options available. A number of free printable worksheets are also up for grabs! One-step equation worksheets This set of worksheets requires students to solve one-step equations involving integers, fractions and decimals by performing addition, subtraction, multiplication or division operations. It also contains math riddles, finding the cost of the objects, translating the phrases into one-step equation and more. Two-step equation worksheets Click on the link to access exclusive worksheets on solving two-step equations that include integers, fractions and decimals. 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If your device is not in landscape mode many of the equations will run off the side of your device (should be able to scroll to see them) and some of the menu items will be cut off due to the narrow screen width. For problems 1 - 9 evaluate the limit, if it exists.  $\lim_{x \rightarrow 2} \left( 8 - 3x + 12(x^2) \right)$  Solution  $\lim_{t \rightarrow 3} \frac{(6 + 4t)((t^2 + 1))}{(t^2 + 1)}$  Solution  $\lim_{x \rightarrow 5} \frac{(x^2 - 25)((x^2 + 2x - 15))}{(x^2 - 25)}$  Solution  $\lim_{z \rightarrow 8} \frac{(2(z^2 - 17z + 8))((8 - z))}{(8 - z)}$  Solution  $\lim_{y \rightarrow 7} \frac{(y^2 - 4y - 21)((3(y^2) - 17y - 28))}{(y^2 - 4y - 21)}$  Solution  $\lim_{h \rightarrow 0} \frac{(h^2 - 36)}{(h)}$  Solution  $\lim_{z \rightarrow 4} \frac{(z - 2)((z - 4))}{(z - 4)}$  Solution  $\lim_{x \rightarrow 3} \frac{(x^2 - 4)}{(x + 3)}$  Solution  $\lim_{x \rightarrow 0} \frac{(x - \sqrt{x + 9})}{(x + 9)}$  Solution Given the function  $f(x) = \begin{cases} 7 - 4x & (x < 1) \\ (x^2 + 2) & (x \geq 1) \end{cases}$  Evaluate the following limits, if they exist.  $\lim_{x \rightarrow 6} f(x)$   $\lim_{x \rightarrow 1} f(x)$   $\lim_{z \rightarrow 4} f(z)$  Evaluate the following limits, if they exist.  $\lim_{z \rightarrow 7} h(z)$   $\lim_{z \rightarrow 4} h(z)$  Solution For problems 12 & 13 evaluate the limit, if it exists.  $\lim_{x \rightarrow 5} \left( 10 + \left| x - 5 \right| \right)$  Solution  $\lim_{t \rightarrow 1} \frac{(t + 1)}{(t + 1)}$  Solution Given that  $\forall x \in \mathbb{R} \left( x^2 + 2 \right) \leq 3$  for all x determine the value of  $\lim_{x \rightarrow 2} f(x)$ . Solution Use the Squeeze Theorem to determine the value of  $\lim_{x \rightarrow 0} (x^4) \sin \left( \frac{\pi}{x} \right)$ . Solution Here you will find another series of progressive worksheets, filled with step-by-step examples, that will help students master the art of analyzing data sets. These worksheets start off with simple problems asking you to calculate the Mean/Median/Mode/Range of a variety of data sets. At first, you'll probably be able to get by with simple mental math, but eventually you may reach for the calculator. To calculate the mean, you just add all of the numbers in the set, and divide by how many numbers are in the set. To find the median, you list the numbers in order from least to greatest, eliminate the lowest and highest numbers, then select the middle number as the median. The mode is the easiest measure to find, it's the number or numbers that appear the most in the set. The range is the difference between the highest and lowest values in the data set. Mean/Median/Mode/Range Worksheet #1 - This is a 10 problem worksheet where you will find the Mean/Median/Mode/Range of different sets of numbers. Only whole numbers are featured, with odd-numbered sets that produce a definite median. Mean/Median/Mode/Range Worksheet 1 RTF Mean/Median/Mode/Range Worksheet 1 PDF Preview Mean/Median/Mode/Range Worksheet 1 in Your Browser View Answers Mean/Median/Mode/Range Worksheet #2 - This is a 10 problem worksheet where you will find the Mean/Median/Mode/Range of different sets of numbers. On this worksheet, you will only deal with whole numbers. Some of the problems feature even-numbered sets and multiple modes. Mean/Median/Mode/Range Worksheet 2 RTF Mean/Median/Mode/Range Worksheet 2 PDF Preview Mean/Median/Mode/Range Worksheet 2 in Your Browser View Answers Mean/Median/Mode/Range Worksheet #3 - This is a 10 problem worksheet where you will find the Mean/Median/Mode/Range of different sets of numbers. Some problems require you to find the median between two remaining numbers in an even-numbered set. Mental math should be sufficient for this worksheet and all of the previous worksheets. Mean/Median/Mode/Range Worksheet 3 RTF Mean/Median/Mode/Range Worksheet 3 PDF Preview Mean/Median/Mode/Range Worksheet 3 in Your Browser View Answers Mean/Median/Mode/Range Worksheet #4 - Time to break out the calculator! This 10 problem worksheet asks you to do some rounding for the mean, and the medians feature some decimals. As usual, there are some step by step examples to guide you along the way. Mean/Median/Mode/Range Worksheet 4 RTF Mean/Median/Mode/Range Worksheet 4 PDF Preview Mean/Median/Mode/Range Worksheet 4 in Your Browser View Answers Mean/Median/Mode/Range Worksheet #5 - Time to look at some serious decimals. This 10 problem worksheet features some means that need to be rounded from hundredths to tenths. 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