

ONE-STEP EQUATIONS

SOLVING ONE-STEP EQUATIONS

- Solving equations allows you to find a missing value, or variable.
 - The _____ must be alone or _____ on one side of the equation.
 - Isolate the variable by using _____ operations.
 - Keep your equation _____.
 - Check your _____ by plugging your answer back into the equation.

1. Write and solve the equation represented below.

Equation: _____

Solution: _____

2. Write and solve the equation represented below.

Equation: _____

Solution: _____

Solve the following one-step equations. Draw algebra tiles if needed, and then check your work.

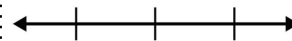
3. $4x = 16$

CHECK & GRAPH:



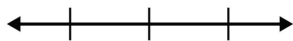
4. $x + 9 = 13$

CHECK & GRAPH:



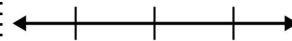
5. $\frac{x}{5} = 13$

CHECK & GRAPH:



6. $x - 8 = 14$

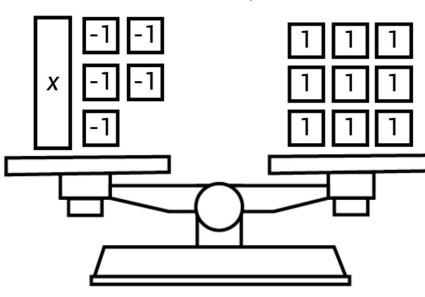
CHECK & GRAPH:



Solve each of the following one-step equations.

<p>7.</p> $6x = 16$	<p>8.</p> $x + 2.5 = 7.5$	<p>9.</p> $\frac{2}{3}x = 8$
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<p>10.</p> $\frac{x}{3} = 7$	<p>11.</p> $x - \frac{1}{10} = \frac{1}{2}$	<p>12.</p> $x + 1.6 = 8.2$
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<p>13. Write and solve the equation modeled below.</p>  <p>Equation: _____ Solution: _____</p>	<p>14. Determine if 55 is the solution to the equation below. Explain your reasoning.</p> $\frac{x}{5} = 11$
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15. Pedro made lemonade for some friends. He served 34 ounces to his friends and then measured that there were 20 ounces leftover. How much lemonade did Pedro make?

Equation: _____ Solution: _____

16. A group of six neighbors hosted a garage sale in which they pooled their items together and equally split the profits. Each neighbor profited \$56.88. What was the total amount earned at the garage sale?

Equation: _____ Solution: _____

Summarize today's lesson: