## Section 11.3


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'Solve an Equation : means to find the value of the variable.
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## 3 methods to solve an equation

- Inspection (guess and check).
- Model the equation on a scale and balance the values.
- Isolate the variable by performing the opposite operation on both sides of the equation.

Method 1: Inspection (Guess and Check)

## Solve the following equations.

$5 c=20$ $\frac{x}{4}=5$

## Method 2: Model on a Scale and Balance

 Solve the following equations.

## Method 3: Isolate The Variable By Performing The Opposite Operation

$5 c=20 \quad \frac{x}{4}=5 \quad 24=4 x \quad 4=\frac{x}{3}$

## Word Problems

yler and Murray earn money delivering pizza. Last weekend, Murray earned \$56. This was one third of the amount that Tyler earned. How much money did Tyler earn?

Always identify your variable first!

Then make your equation

## Word Problems

Majid is saving for a ski trip that costs $\$ 525$. He needs to triple his savings before he has enough money for the trip. How much money has Derek saved so far?
Always identify your variable first!

Then make your equation

Check using substitution

## Word Problems

A man rides his bike at $\mathbf{2 0 0} \mathbf{m} / \mathbf{m i n}$. If he rides his bike from home to school, a distance of $\mathbf{3 0 0 0} \mathbf{m}$, how long will it take him to get school?

Always identify your variable first!

Then make your equation

Check using substitution

