

Solving Equations  
by  
Multiplying and Dividing

6<sup>th</sup> Grade Mathematics

Mr. Wong

# Solving Equations

Get the variable by itself.

Remember the variable is the  
“unknown”

# Solving Equations

Solve:  $-2b = 30$

$$\begin{array}{r|l} -2b = 30 & \\ \div -2 & \div -2 \\ \hline b = -15 & \end{array}$$

- Put a line down the equal sign
- Get the “b” by itself
  - Cover the “b”
  - What doesn’t belong?
- “-2” Do the opposite to move it to the other side
- Now is “b” by itself?

# Solving Equations

Solve:  $-28 = 7m$

$$\begin{array}{r|l} -28 = 7m & \\ \div 7 & \div 7 \\ \hline -4 = m & \end{array}$$

- Put a line down the equal sign
- Get the “m” by itself
  - Cover the “m”
  - What doesn’t belong?
- “7” Do the opposite to move it to the other side
- Now is “m” by itself?

# Solving Equations

Solve:  $b \div -6 = 20$

$$\begin{array}{r} b \div -6 = 20 \\ \bullet -6 \quad \bullet -6 \\ \hline b = -120 \end{array}$$

- Put a line down the equal sign
- Get the “b” by itself
  - Cover the “b”
  - What doesn’t belong?
- “-6” Do the opposite to move it to the other side
- Now is “b” by itself?

# Solving Equations

Solve:  $9 = n \div 8$

$$\begin{array}{r|l} 9 = n \div 8 & \\ \bullet 8 & \bullet 8 \\ \hline 72 = n & \end{array}$$

# Solving Equations

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The End!