Solving Equations

x

-x

-1

1

By Multiplying and Dividing

# Demonstration

Algebra tiles can help you visualize what’s actually happening when you are solving algebraic equations.

Tips: Be sure the tile itself and not the text is selected when making a copy.

You can:

* Right click and copy
* Select the tile and press Ctrl + D
* Use the Ctrl + C, Ctrl + V copy and paste short cuts or
* Hold the Ctrl key down while dragging a tile which also makes a copy of the original

The **Division Property of Equality** states

For all real numbers a, b, and c, if a = b, then $\frac{a}{c}=\frac{b}{c}$.

-1

1

-x

x

Solve 3x = 15 using Algebra Tiles

x

-x

1

-1

Solve 2x = -3.

x

-x

1

-1

Solve -1 = 2x + 5

x

-x

1

-1

Solve $\frac{x}{3}= -2$