

ALGEBRAIC PROPERTIES CARD SORT

Equation	<i>A statement that two expressions are equal.</i>	$5x + 9 = 24$
Inverse Operations	<i>Two operations that undo each other.</i>	Addition and Subtraction
Equivalent Equations	<i>Equations that have the same solutions.</i>	$x + 2 = 7$ and $2x + 1 = 11$
Addition Property of Equality	<i>Adding the same number to each side of an equation produces an equivalent equation. If $a=b$, then $a+c=b+c$.</i>	$x - 5 = 7$ $(x - 5) + 5 = 7 + 5$ $x = 12$
Subtraction Property of Equality	<i>Subtracting the same number of to each side of an equation produces an equivalent equation. If $a=b$, then $a-c=b-c$.</i>	$x + 4 = 10$ $(x + 4) - 4 = 10 - 4$ $x = 6$
Multiplication Property of Equality	<i>Multiplying each side of an equation by the same nonzero number produces an equivalent equation. If $a=b$, then $a \cdot c = b \cdot c$.</i>	$\frac{x}{5} = 7$ $\left(\frac{x}{5}\right) \cdot 5 = 7 \cdot 5$ $x = 35$
Division Property of Equality	<i>Dividing each side of an equation by the same nonzero number produces an equivalent equation. If $a=b$, then $a \div c = b \div c$.</i>	$6x = 24$ $\frac{6x}{6} = \frac{24}{6}$ $x = 4$