ALGEBRAIC PROPERTIES CARD SORT

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