SM2-A PROPERTIES 1-2 (Solve Equations Lesson)

<u>Properties of Equality</u>   Only apply to equations!!!

        Addition Property of Equality

        Subtraction Property of Equality

        Multiplication Property of Equality

        Division Property of Equality

If you: "+, -, x, ÷" by the same number on both sides of the equal sign, then you are guaranteed that the next equation is an equivalent equation.

The <u>Distributive Property</u> (of multiplication over addition) Applies to expressions. Remember that <u>*one side of an equal sign in an equation is an expression.*</u>

        When multiplying a factor and the sum of two or more addends, the factor can be <u>distributed</u> to each of the addends.

$$2(x + 4) \quad \rightarrow \quad 2x + 2(4) \quad \rightarrow \quad 2x + 8$$