

DEFINITIONS

Equation:

An equation uses an equal sign. The equation sign means that both the left side and the right side of the equation have the same value.

Variable:

A letter that replaces a number when we don't know its value. X + 6 = 17

Constant: A number(s) in an equation.

X + 6 = 17

ALGEBRA RULES

1st Algebra rule:

Remove constants from the variable side of the equation by performing the opposite math operation of the constant.

2nd Algebra rule:

Whatever you do to one side of the equation you do to the other side.



Remember: Keep the scale balanced!

EXAMPLES

1st Rule: Remove constant by do- ing the opposite math operation 2nd Rule: Do the same thing to the other side	R + 15 = 25 -15 0 $R + 15 = 25$ $-15 - 15$ 0 10	R = 10
 1st Rule: Remove constant by doing the opposite math operation 2nd Rule: Do the same thing to the other side 	$X - 33 = 20$ $\frac{+33}{0}$ $X - 33 = 20$ $\frac{+33}{0} + 33$ $0 53$	X = 53
 1st Rule: Remove constant by doing the opposite math operation 2nd Rule: Do the same thing to the other side 	$\frac{10}{10} \cdot R = 20$ $\frac{10}{10} \cdot R = \frac{20}{10}$	R = 2
ing the opposite math operation 2nd Rule: Do the same thing	10	R = 2