4.5 pt. 2 Solving Equations using Multiplication and Division

Step 1: Use opposite or inverse operations, to ISOLATE the variable

Step 2: Simplify

Step 3: Check by substituting your answer in for the variable

Remember...

✓ Addition

✓ Subtraction

✓ Multiplication

✓ Division

undoes

undoes

undoes

undoes

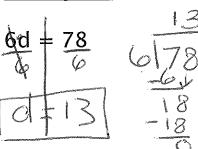
SUBTRACTION

ADDITION

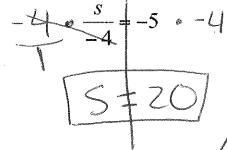
DIVISION

MULTIPLICATION

Examples:



Divide each side of the equation by the number attached to the variable.



*Multiply each side of the equation by the same number.

*Or simply multiply the denominator by the answer! (5 4 = 20)

$$\frac{s}{5} = 20 = 5$$

$$\frac{s}{-5} = -13 \circ -5$$

$$\frac{-16}{-8} = \frac{-8x}{-8} \qquad -8x = -16$$

$$\frac{30t}{30} = \frac{-390}{30}$$