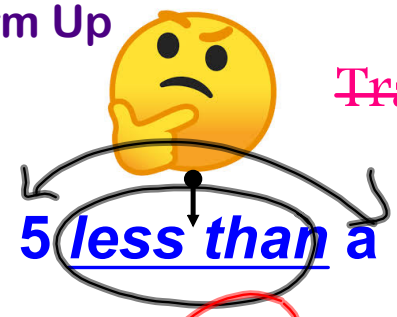
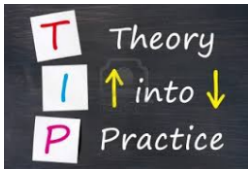
Warm Up



~~Translate and Solve~~



a) 5 *less than* a number is 20

$x - 5 = 20$

b) The sum of a number and 44 is 13

$x + 44 = 13$

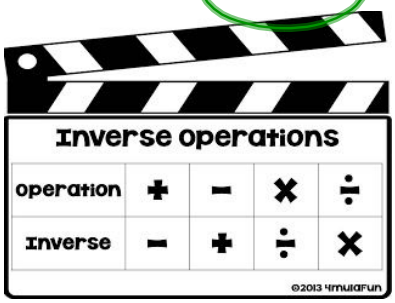
-31

Unit 2: Solving One and Two Step Equations

Solving equations is something you have done before. You must keep both sides **EQUAL** without throwing one side off balance.

INVERSE OPERATIONS:
operations that undo each other.

This is how you solve equations- by doing the inverse or opposite operations!



Solving 1-Step Equations w/ Addition & Subtraction

Solve and check each of the following.

1) $3 = m - 11$

$+11 \quad +11$

$14 = m$

check:

$3 = (14) - 11$

$3 = 3$ ✓

2) $48 + k = -5$

$-48 \quad -48$

$k = -53$

$48 + (-53)$

-5

Summarize it!

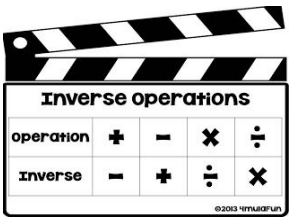
In your own words, give a general step-by-step procedure for how to solve one-step equations.

1. Draw line down equal sign (keep balance)
2. Do opposite operation to remove the # w/ the variable (same to both sides)
3. Solve & check in original equation
4. _____

$x + 5 = 17$

$-5 \quad -5$

$x = 12$



$-15 = x - 3$

$+3 \quad +3$

$-12 = x$

Mixed Practice!

Solve and check each of the equations shown below.

1. $x - 3 = 7$

$+3 \quad +3$

$x = 10$

2. $8 = 9 + c$

$-9 \quad -9$

$-1 = c$

3. $7 + k = -4$

$-7 \quad -7$

$k = -11$

4. $-10 + m = 5$

$+10 \quad +10$

$m = 15$

Complete the exit ticket on the LAST

PAGE OF THIS PACKET

Name: _____

Score: ____/6

EXIT TICKET

(one-step w/ addition & subtraction)

tear this page off and turn it in before you leave class today

Directions: Solve and check each of the equations found below. Show all work for full credit.

1. $4 + x = 12$

2. $18 = x - 7$