

Problem of the Day: Solve the equations.

a. $13 = 5 - 8m$ b. $-8 = 32 - 5x$

$8 = -8m$ $-32 = -5x$

$-1 = -m$ $-40 = -5x$

Plan for the Day: Collect homework Week 1 and Test of Knowledge worksheet

Daily integer quiz - update and take a new one

Finish notes- solving equations w/variables on both

More practice on equations with variables on both

Objective: We will be able to solve equations with variables on both sides.

August is National Sandwich Month!!

Example 3: Solve. $2x - 8 = 5x + 4$

$-8 + 12$ $-8 + 128$

432 $-8 + 400$

$128 - 8$ $-8 - 400$

$400 - 8$ $-400 - 8$

Example 4: Solve. $4x - 8 = -8 + 4x$

$4 = 4$ $-4x$ $-4x$

$120 = 120$ $-8 = -8$ true

$392 = 392$

$-408 = -408$

all real numbers

Example 5: Write the equation represented and solve.

$3x - 1 = 2x + 3$ $3 \cdot 4 - 1 = 2 \cdot 4 + 3$

$-2x - 1 = 2x + 3$ $12 - 1 = 8 + 3$

$x - 1 = 3$ $11 = 11$

$x = 4$

Example 6: Solve. $8m + 3 = 5m + 15$

$-5m$ -3

$3m + 6 = 15$

$3m = 9$ $3 = 3$

$m = 3$