

3-5

Solving two-step equations

p/22

$$2x + 1 = 9.1$$

-1

$$\frac{2x}{2} = \frac{8}{2}$$

$$x = 4$$

• goal: find variable

• # not with
variable goes first

$$5x - 2 = 13 + 2$$

$$\frac{5x}{5} = \frac{15}{5}$$

$$x = 3$$

$$4 - x = 10$$

$$\begin{array}{r} 4 - x = 10 \\ -4 \quad -4 \end{array}$$

$$\frac{-x}{-1} = \frac{6}{-1}$$

$$x = -6$$

$$\begin{array}{r} 4 + x = 10 \\ -x + 4 = 10 \end{array}$$

$$\begin{array}{r} 4 - x = 10 + x \\ +x \end{array}$$

$$\begin{array}{r} 4 = 10 + x \\ -10 \quad -10 \end{array}$$

$$x = -6$$

$$m - 5n + 3 = 47$$

$$-4m + 3 = 47 - 3$$

$$\frac{-4m}{-4} = \frac{44}{-4}$$

$$m = -11$$

$$3\underline{x} + 2\underline{x} = 20$$

$+$: more, sum, add, plus, increase, more than

$-$: difference, less, minus, subtract, take away, decrease, less than

\times : multiply, times, product, of, twice, doubled

\div : divide, quotient, into, half

$=$ means equal

• start w/variable

$$3n + 7 = 31$$

-7 -7

$$\frac{3n}{3} = \frac{24}{3}$$

$$n = 8$$

$$4n + 99$$

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Homework

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due
Friday