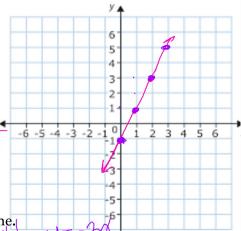
Tuesday:

Warm up

Use the equation: y = 2x + 1

- a. What is the slope of the line? ____2
- b. What is the y-intercept of the line? _____ × /
- c. Graph the line on the coordinate plane.
- d. Write an equation of a line that is steeper than the given line.



CW 3.2.9

Use the Distributive Property to Solve the Equations.

1.
$$6(x + 3) = 24$$

$$6x + -18 = 24$$
 $+18 + 18$
 $6x = 42$
 6

2.
$$3(-6n + -5) = 75$$

$$-|8(-15 + 15)| + |5|$$

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Use the Distributive Property to Solve the Equations.

$$3. \ \frac{3}{4}(4x+8) = -12$$

$$\frac{3x + 6 + -12}{-6 + 6}$$

$$\frac{3x + 6 + -12}{3}$$

$$\frac{-3x}{3} + -18$$

4.
$$\frac{1}{3x+12} = 48$$

 $-3x+12 = 48$
 -12 -12
 $-3x = 36$
 $-3 = 36$
 $-3 = 36$
 $-3 = 36$
 $-3 = 36$

A store had homemade sweaters on sale for \$20 off the original price. Aunt Ethel jumped at the bargain and bought a sweater for all 15 members of her family. Aunt Ethel paid \$375 for all of the sweaters. Write and solve an equation to find the original price for each sweater.

x = the original price for a sweater $15(x \div 20) = 375$

The original price of the sweater was \$45.