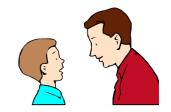


Warm Up Grade 8



- 1) Stan ate 21 skittles. His dad says that he ate one-third of the bag. How many skittles were in the bag to start with?
- a) Write an equation to represent this problem. Solve the equation.
- b) Verify the solution.

let x = amount of skittles in bag

$$\frac{x}{3} = 21$$

$$\frac{x}{3} = 21 \cdot 3$$

$$x = 63$$

There were 63 sk: Hes in the bag.

solve using algebra

2)
$$\underline{c} - 7 = 5$$

$$\frac{C}{2} = 12$$

Quiz Time

10.
$$\frac{1}{2} - 11 = 12$$

 $\frac{1}{2} - 11 = 12 + 11$
 $\frac{1}{2} - 11 + 11 = 12 + 11$
 $\frac{1}{2} = 23$
 $\frac{1}{2} \times 2 = 23 \times 2$
 $\frac{1}{2} \times 2 = 246$

11. a) Yes, correct
n is the number of candy in the bag, dividing by 5 represents
the S students, subtract I is
the candy given to the teacher
and 9 is how many candy each
student had.

$$\frac{1}{1} = \frac{9}{1}$$

$$\frac{1}{1} = \frac{9}{1}$$

$$\frac{1}{1} = \frac{1}{1}$$

$$n = \text{grade } 8 \text{ students}$$

$$\frac{n}{3} + 5 = 41$$

$$\frac{n}{3} + 5 = 41 - 45$$

$$\frac{n}{3} + 5 = 36$$

$$\frac{n}{3} = 36 \times 3$$

$$\frac{n}{3} \times 3 = 36 \times 3$$

$$n = 108$$

13al Correct

- b) Didn't isolate the variable first
- c) Should have multiplied by -4.

Extra Practice 3

 $\frac{d}{d} \times 5 = -8 \times 5$ d = -40

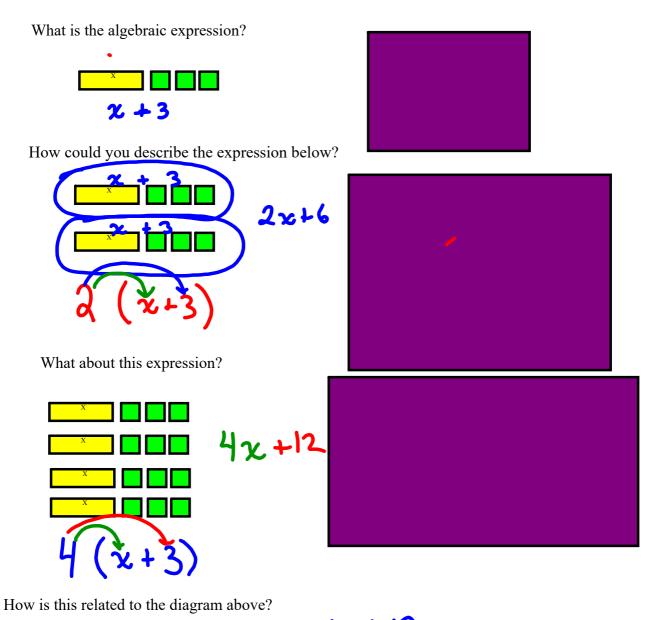
$$d = -40$$

 $\frac{1}{6}x^{-6} = 10x^{-6}$

以-2=-11×-2 以=22

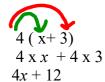
3 a)
$$\chi = \text{chicken Pieces}$$
 $\frac{\chi}{4} = 7$
 $\chi = 7 \times 4$
 $\chi = 28$
 $\chi = 28$
 $\chi = 28$
 $\chi = 7 \times 4$
 $\chi = 7 \times 4$

n = -24



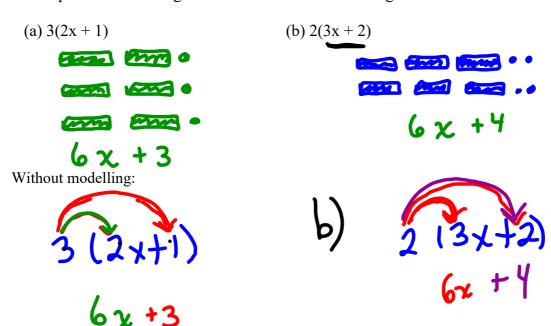
They are the same but in this one the tiles are touching.

What we just showed is the Distributive Property in math.



means the 4 is distributed to the x and to the 3, so we get

Examples: Model and give the answer for the following:



What we just showed is the Distributive Property in math. 4 (x+3) means the 4 is distributed to the x and to the 3, so we get 4 x x + 4 x 3 4x + 12

Examples: Model and give the answer for the following:







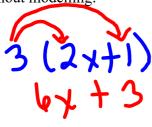
$$6x + 3$$

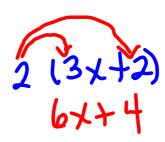




$$6x + 4$$

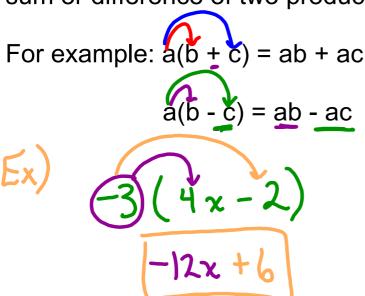
Without modelling:





The Distributive Property

The property stating that a product can be written as a sum or difference of two products.



$$3(4x-5)$$

Box method

12x-15

Multiply: 7(c + 2)



$$2(x+4)$$

$$3(\chi-2)$$

a)
$$-5(x + 7)$$

$$-5x-35$$

