

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.

There were 63 skittles in the bag.

solve using algebra

$$\frac{C}{2} - 7^{*} = 5 + 7$$
 $\frac{C}{2} = 12$
 $2 \times \frac{C}{2} = 12 \times 2$
 $C = 24$

$$-2 \times + 4 = 14^{-4}$$

$$-2 \times = 10$$

$$\div -2$$

$$\times = -5$$

-17+e+17 =-8+17

$$e = 9$$
 $e = 9$
 $e = -17 = 9x - 7$
 $e = -63$
 $e = -17 + -63$
 $e = -17 + 9$

9.
$$n = the number$$

$$\frac{n_{3}}{3} + 1 = 6$$

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$$\frac{n_{3}}{3} + 1 = 6$$

$$\frac{n_{3}}{3} + 3 = 5$$

$$\frac{n_{3}}{3} \times 3 = 5$$

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

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

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 tracker
and 9 is how many cardy each
student had.

$$\frac{73}{3} - 1 = 9 + 1 \\
\frac{1}{3} - 1 + 10 \\
\frac{1}{3} - 1 + 10 \\
\frac{1}{3} - 10 \\
\frac{1$$

13al Correct

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

Extra Practice 3

$$2\omega d_{5} = -8$$

 $d_{5} = -8 \times 5$
 $d_{5} = -40$

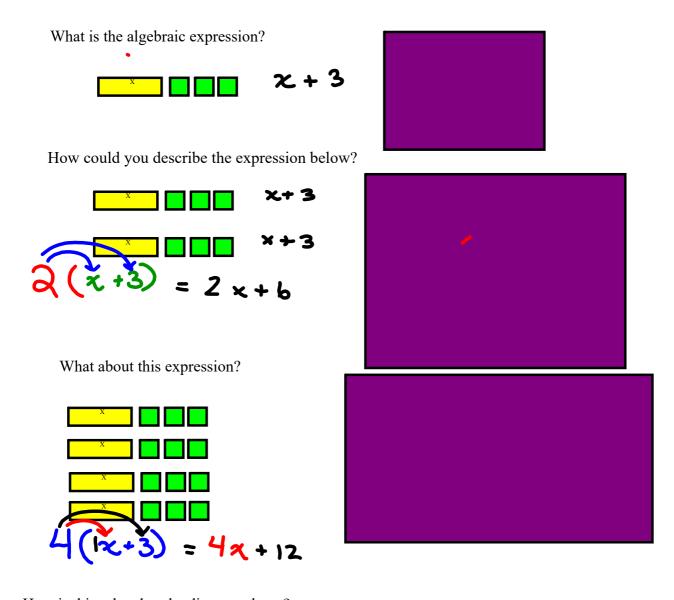
$$d = -40$$

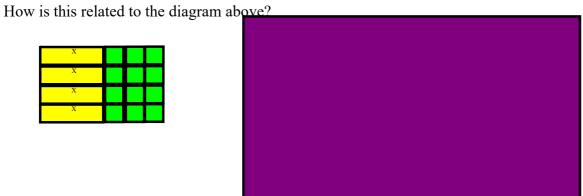
$$51 = 10$$
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$$\frac{1}{-2} = -11$$

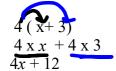
3 a)
$$\chi = \text{Chicken Pieces}$$
 $\frac{\chi}{4} = 7$
 $\chi = 7$
 $\chi = 7$
 $\chi = 7 \times 4$
 $\chi = 28$
 $\chi = 7 \times 4$
 $\chi = 12 \times 5 \times \frac{1}{16} = 9 \times 5$
 $\chi = 12 \times 5 \times \frac{1}{16} = 9 \times 5$
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 $\chi = 12 \times 5 \times \frac{1}{16} = 9 \times 5$
 $\chi = 13 \times 9$
 $\chi = 13 \times 9$

n = -24

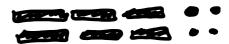




What we just showed is the Distributive Property in math.



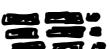
means the 4 is distributed to the x and to the 3, so we get



Examples: Model and give the answer for the following:



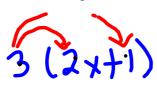




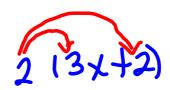




Without modelling:







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:

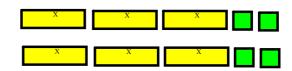






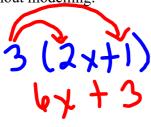
$$6x + 3$$

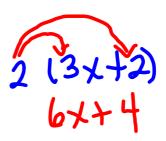
(b) 2(3x + 2)



$$6x + 4$$

Without modelling:





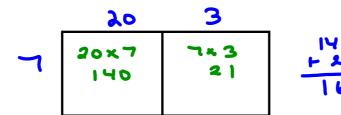
The Distributive Property

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

For example:
$$a(b + c) = ab + ac$$

$$a(b - c) = ab - ac$$

Box method



Multiply:
$$7(c + 2)$$

$$2(x+4)$$

$$2x+8$$

Expand:

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

$$-5x - 35$$

