

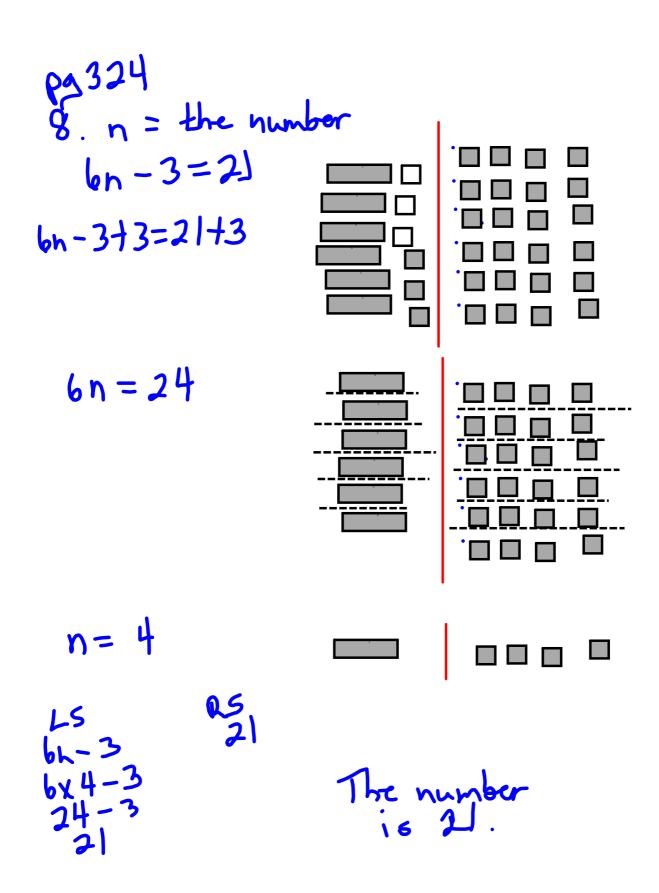
Model and solve

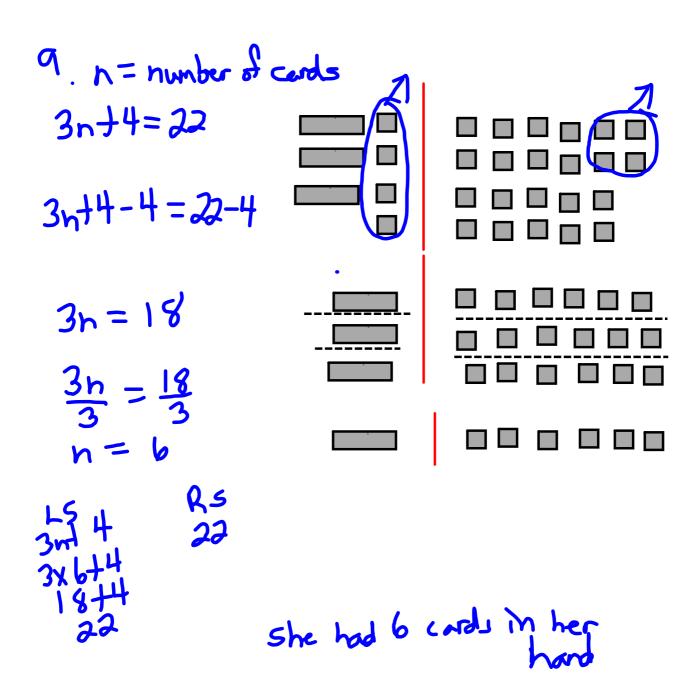
$$-\chi = 19$$

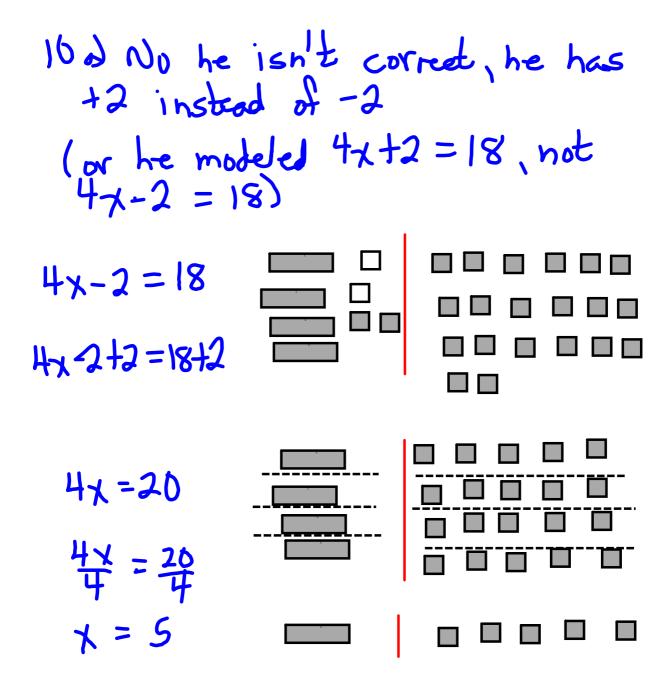
$$-1\chi = +19$$

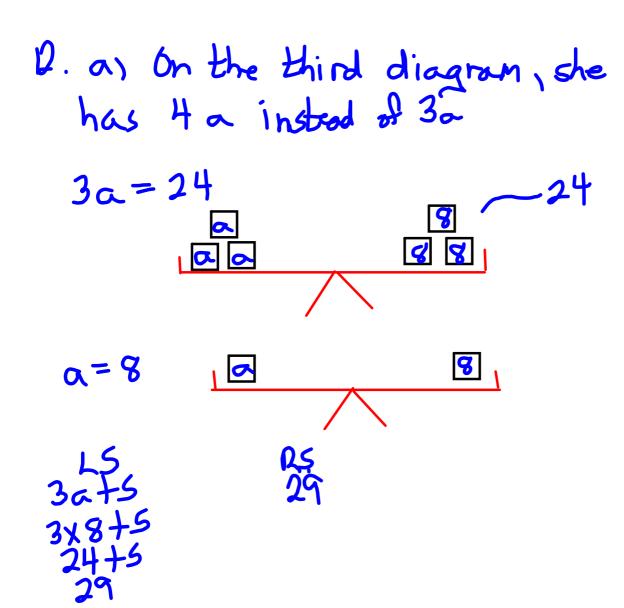
$$\div(1) \quad (\div -1)$$

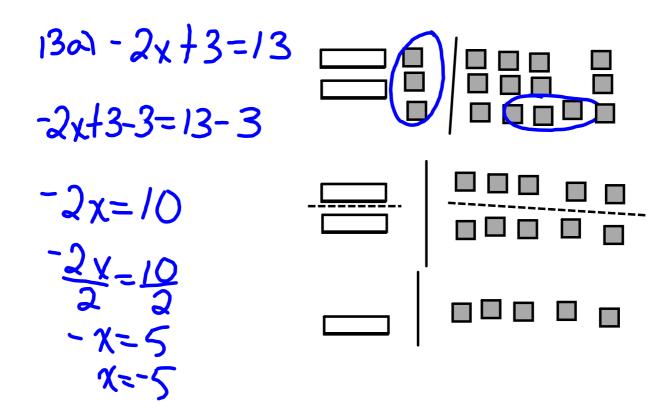
$$\chi = -19$$











c)
$$2x-3=-13$$

$$2x-3-(-3)=-13-(-3)$$

$$2x=-10$$

$$2x=-10$$

$$2x=-10$$

$$x=-5$$

Solving Equations using Algebra



To solve an equation, we need to isolate the variable on one side of the equation.

To do this, we get rid of the numbers on that side of the equation.

When we solve an equation using algebra, we must also preserve the equality.

Whatever we do to one side of the equation, we must do to the other side, too.

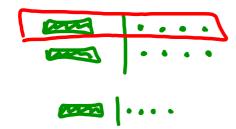
Whatever we do to one side of the equation, we must do to the other side, too.

Solve using algebra tiles then solve by using algebra









b)
$$2 + 3a = -4$$

$$3a = -6$$

$$\div(3) \div(3)$$

algebra with algebra whatever you want to get rid of you do the opposite operation to it

$$2y - 1 = 7 + 1$$

$$2y - 1 = 7 + 1$$

$$2y = 8$$

$$2y = 4$$



Getting a Fraction or a Decimal as an Answer is OK

Use algebra to solve the equation. Then verify the solution.

$$16t - 69 = -13$$



$$|6t - 69469 = -13 + 69$$

$$|6t = 56$$

$$\div (16) \div (16)$$

$$(t = 3.5)$$

For each, for every, per > goes with litter (multiply) Hg Brad charges \$4 for each bag of garbage,

and \$7 cleaning gutters. On Friday, Brad cleaned 1 gutter and took out the garbage. He earned \$19. How many bags of garbage did he take out?

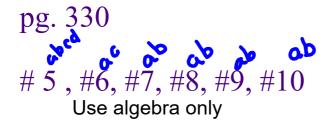
Let 9 = bags of garbage.

- a) Write and equation to represent this problem?
- b) Solve the equation using algebra.
- c) Verify the solution.

$$49 + 7 = 19$$
 $49 + 7 = 19 - 7$
 $49 = 12$
 $49 = 12$
 $49 = 3$

Brad took out 3 bags of garbage.

Class/Homework



You can model if you want