

Journal Entry:

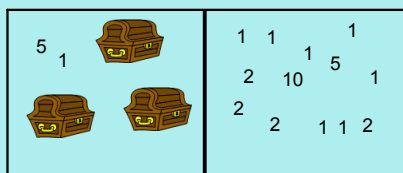
Write a one-step equation. Then write two equations that are equivalent to your equation. How can you prove that all three equations are equivalent?

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Section 2-2 Solving 2-Step Equations

Students will be able to solve two-step equations in one variable

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Player A

Player B

If they players again must start with the same amount of coins, and the three chests have to have the same in each one, how much money must be in each chest?

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To solve 2-step equations, you again need to isolate the variable by using inverse operations. You will usually undo the operations performed on the variable in reverse order of the order of operations.

Solve:

$$-2x - 7 = 13$$

$$+7 \quad +7$$

$$-2x = 20$$

$$\frac{-2x}{-2} = \frac{20}{-2}$$

$$x = -10$$

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Solve and check:

$$5 = \frac{t}{2} - 3$$

$$+3 \quad +3$$

$$2 \cdot 8 = \frac{t}{2}$$

$$16 = t$$

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Solve:

$$-10 = 5 - x$$

$$-10 = 5 - x$$

$$-15 = -x$$

$$15 = x$$

$$-10 = 5 - x$$

$$-15 = -x$$

Sep 21-11:32 AM

You are making a bulletin board to advertise community service opportunities in your town. You plan to use half a sheet of construction paper for each ad. You need 5 sheets of construction paper for a title banner. You have 18 sheets of construction paper. How many ads can you make?

$$18 - 5 = 13$$

$$13 \times 2 = 26 \text{ ads}$$

$$18 = 5 + \frac{1}{2}x$$

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Solve:

~~$$\frac{x-2}{4} = 6 \cdot 4$$~~

$$x - 2 = 24$$

$$+ 2 \quad + 2$$

$$x = 26 \checkmark$$

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Solve and justify each step.

~~$$-5 + \frac{x}{3} = 4$$~~

$$+5 \quad +5$$

~~$$\frac{x}{3} = 9$$~~

$$\cdot 3 \quad \cdot 3$$

$$x = 27$$

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Hwk:

pg. 91 - 93
 #24 - 36 (4th), 38 - 46 (evens),
 52 - 58 (evens), #57, 62 - 65
 all

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