MasterMath

Solving two-step equations

1. **Solve these equations.**

equation	solution		equation	solution
6x + 3 = 15			1/2z + 12 = 36	
x + 2x - 15 = 12			2z + 6 + 3z = -34	
17 = 9 - 2y			x + 3x - 4 = 36	
-3a + 16 = -20			8 - 2c = -16	
15 - 5x = 25			16 + 5 = 7x - 7	
11 - 4z = -27			3.4x + 5 = 22	
2.5x + 2.5 = 12.5			16x - 12 = 52	

2. A ticket to the movies costs $7.50. Popcorn is $3.50. A drink cost $1.50. You will take a cab to the theater from your house and that will cost $12.00 for up to 5 passengers. You want to pay for the cab, and a ticket, drink and popcorn for each person. You have $62.00. How many people, including yourself, can you take to the movies?

3. What does a equal?

Perimeter = 15

.75a   .75a

a
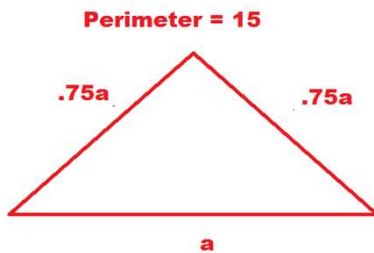
4. Water freezes at 32 degrees F. You start with water that's at 62 degrees, and place it in a freezer that drops the water temperature 6 degrees per hour. How long will it take the water to freeze?

5. The school football team beat their rivals last weekend. They gained 250 yards rushing the ball. Fred gained twice as many yards as Mike. The rest of the team's runners gained 40 yards. How many yards did Mike gain?

6. Your store sells hats and belts. You sold $60 worth of product on Friday. Your hats sales were 1/3rd of your belt sales. How many dollars worth of hats did you sell Friday?

7. The formula for the perimeter of a rectangle is two times the base plus the height. The perimeter of a rectangle is 36 in. The rectangle's height is half it's base. What is rectangle's base length?

8. You plan to make a vegatable garden that is 16' long by 12' wide. You have 66' of fencing. How much wider could you make your garden and still have enough fencing?