

 $\frac{2}{5}x - 10 = 20$ 410 $\frac{36}{1} \cdot \frac{5}{21}$ 5-2-3X

 $-32 + \frac{2}{3}x = \left|2\frac{1}{3}x + 3\right|$ $-32 + \frac{2}{3x} = \frac{7}{3x+3}$ -2 3X -2 -32 = 5x+3









EQUAL COST 376 + 12(32) = \$760280 + 15(32) = \$760A house painting company charges \$376 plus \$12 per hour. Another painting company charges \$280 plus \$15 per hour. 5/6+12x=280+Kx a. How long is a job for which both companies will charge the same amount?

b. What will that cost be?

AGE PROBLEM

Chris = 24 Dena = 11 May = 27

Mary is 16 years older than Dana and Dana is 13 years younger than Chris. if the sum of their ages is 62, find each person's age.

Chris=(Dona= C-13 Mary= (+3

-13 + (c+3 = 62)30=



CONSECUTIVE NUMBER PROBLEM

Find three consecutive numbers whose sum is 543.

$$\chi + \chi + 1 + \chi + 2 = 543$$

 $3x + 3 = 543$
 $3x = 540$
 $x = 180 \rightarrow 5 = 1105 \pm 100$

ANOTHER WORD PROBLEM

You and your friend both bought some gum. Your friend spent three times as much as you did. Altogether, you spent \$4.80. How much did you each spend on gum?

x = 4.80

> \$3.60 = frional

AGE PROBLEM

In 16 years, Lilly will be 5 times as old as she is now. How old is Lilly now?

16tx = 5x $-\chi -\chi$ 16 = 4xLilly is 4 y/o



The sum of two consecutive numbers is 87. What are the numbers?

Mr. Young's class did a food drive. Brad brought some cans. Brittany brought twice as many cans as Brad. Belinda brought 7 more cans than Brad. They brought 27 cans total. Set up an equation and solve it to find out how many cans Brad brought.





If the **area** of the rectangle is 44, find the value of x:



Cool Down

 $5(x - 20) = \frac{1}{2}(4x + 4)$ 5x-100 = 2x + 2 +100 floo 5x = 2x + 62-2x - 2x3x=102