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WARMUP
$$8/(5 \cdot 6) \div 2$$



2. Find the unit rate: 88 students for 4 classes

3. A machinist can produce 114 parts in 6 minutes. At this rate, how many parts can the machinist produce in **W** minutes? 114 ports x32 X parts 114 342 parts Gmin x3 18 min 342 342 parts

27 students per class

4. A recipe that makes 8 jumbo blueberry muffins calls for $1\frac{1}{2}$ teaspoons of baking powder. How much baking powder is needed to make 3 dozen jumbo $\frac{8 \text{ muf}}{1 \text{ sp}} = \frac{36 \text{ muf}}{X \text{ typ}} \quad 8x = 36 \text{ l} \frac{1}{3} \quad |X = 6\frac{3}{4} \text{ typ}$ muffins?

AT THE END OF CLASS...

I will have time to answer questions about problems you were stuck on!!!

WRITE AN EQUATION

Five times the sum of a third of a number plus 20 equals 400.







PERIMETER

Millie is planning to use exactly 112 feet of fencing as the border of a rectangular garden. If the width of the garden is $\frac{1}{3}$ of the length of the garden, what is the width of the garden? Hint: let L be the length of the garden. Draw a picture.

L+L+32+32=112 $\begin{array}{c} 2 \\ 3 \\ \hline 3 \\ \hline 8 \\ \hline 8 \\ \hline 8 \\ \hline 9 \\ \hline$ X 3 336

EQUAL COST

A house painting company charges \$376 plus \$12 per hour. Another painting company charges \$280 plus \$15 per hour.

a. How long is a job for which both companies will charge the 376+12h = 280+15h -280-12h -280 +15h same amount?

b. What will that cost be?

376 + 12(32) 280 + 15(32)280+490 376+384

AGE PROBLEM

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. $D_{qna} = D$

$$Mary = D + 16$$

Chris = D + 13

$$D + (D + (6) + (D + 13) = 62$$



3D + 29 = 62-29 - 293D - 33 D = II

CONSECUTIVE NUMBER PROBLEM

Find three consecutive numbers whose sum is 543.

Lowest: X Middle: X+1 Highest: X+2

 $\chi + (\chi + i) + (\chi + z) = 543$ $3\chi_{+3} = 543$ -3 -3 80,181,182 5X=540

X= 180

ANOTHER WORD PROBLEM

You X

Friend: 3x

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 X + 3x = \$4.80 [You: \$1.20 Friend: \$3.60] did you each spend on gum?

 $\frac{4}{1} = \frac{4.80}{1}$

X = 1.20

AGE PROBLEM

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





CONSECUTIVE NUMBERS

The sum of two consecutive numbers is 87. What are the numbers? X + (X + I) = 87







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. C + 2 C + (C + 7) = 27

5 cans

Brad: C. Brittony: 2C Belinda: C+7

4C+7=27 C=S 4c = 20



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





Cool Down

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



HOMEWORK

Brown Equations Worksheet (Due tomorrow!)