

Translate Only: Twice the square of some number is equal to 5 less than 3 times the number. Let x be the number  $2\chi^2 = 3\chi -5$ :h.1

3.25% of what number is 2600?  

$$\frac{P}{100} = \frac{Part}{whole} \quad "whole comes after of"
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$$\frac{P}{100} = \frac{Part}{whole} \quad P (ross - Mu | Hip | y)$$

$$\frac{3.25}{100} = \frac{2600}{x} \quad 3.25 \chi = 100 (2600)$$

$$3.25 \chi = 260000$$

$$\chi = \frac{260000}{3.25} \quad \chi = 80,000$$

$$3.25\% \quad (h.2)$$$$$$

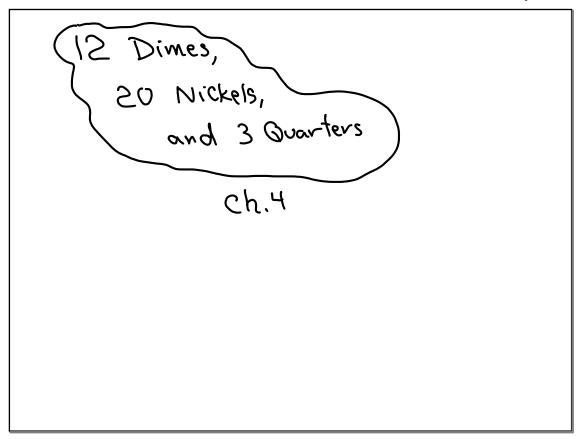
There are 40 computers for 75 Students.  
At this rate, how many computers for  
4500 Students?  

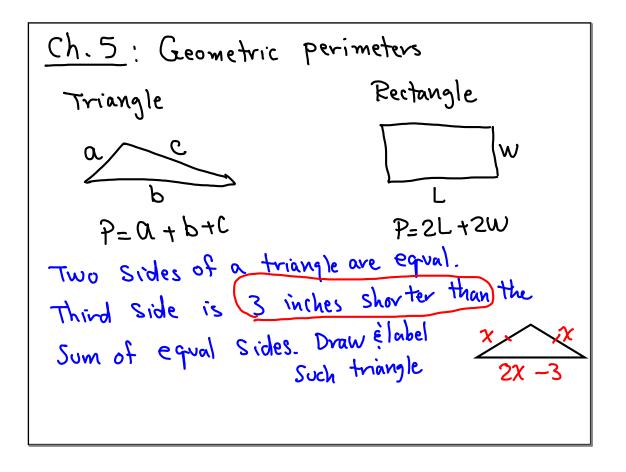
$$\frac{40 \text{ Comp.}}{75 \text{ Students}} = \frac{x \text{ Comp.}}{4500 \text{ Students}}$$
  
 $\frac{40}{75} = \frac{x}{4500}$   
 $\frac{40}{75} = \frac{x}{4500}$   
 $\frac{40}{75} = \frac{x}{4500}$   
 $\frac{40}{75} = \frac{x}{4500}$   
 $\frac{10}{75} \text{ Students}$   
 $2400 \text{ Computers}$   
 $x = \frac{40(4500)}{75}$   
 $x = \frac{40(4500)}{75}$   
 $x = 3400$ 

Marva bought 64 books.  
Math 
$$\dot{\epsilon}$$
 English only.  
The number of Math books were I more than  
G times the number of English books.  
How many math books did she buy?  
Math  $\Rightarrow 6x + 1 \Rightarrow 6(9) + 1$   
English  $\Rightarrow x = 55$   
 $55$  Math Books  
 $\chi = 63$   
 $\chi = 63$   
 $\chi = 63$ 

Jack has 35 Coins  
Nickels, Dimes, and Quarters.  
the number of dimes is 4 times the number of  
Quarters.  
The number of nickels is 1 fewer than 7 times  
the number of nickels is 1 fewer than 7 times  
the number of quarters.  
How many of each?  
Total is 35  
Dimes 4 Nickels + Quarters = 35  

$$12\chi = 35$$
  
 $12\chi = 36$   
 $\chi = 3$ 





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A triangular garden has a perimeter of  
20 St. One Side is 6St. The other two  
Sides are equal. Find the missing sides.  

$$P = 20$$
  
 $a + b + c = 20$   
 $x + 6 + x = 20$   
 $2x + 6 = 20$   
 $2x = 20 - 6$   
 $2x = 14$   
 $x = \frac{14}{2}$   $x = 1$ 

the perimeter of a triangle is 33 m.  
One Side is twice another Side.  
Third Side is 3 m Shorter than the Sum  
of other two Sides.  

$$P = 33$$
  
Side 1 + Side 2 + Side 3 = 33  
 $x + 2x + 3x-3 = 33$   
 $6x - 3 = 33$   
 $6x - 3 = 33$   
 $6x = 33 + 3$   
 $6x = 36$   
 $x = 36$   
 $x = 36$   
 $6x = 36$ 

the length of 
$$\omega$$
 rectangular carpet is  
2 ft longer than its width.  
Perimeter is 76ft.  
find its dimensions.  $W=X$   
 $P=76$   
 $20$  ft  
 $20$  ft  
 $20$  ft  
 $20$  ft  
 $18$  ft  
 $20$  ft  
 $1=x+2$   
 $20$  ft  
 $1=x+2$   
 $20$  ft  
 $1=x+2$   
 $2(x+2)+2(x)=76$   
 $1x+2x=76$   
 $4x+4=76$   
 $4x+4=76$   
 $4x=76-4$   
 $x=18$ 

A rectangular pool has a perimeter of  
44 meters.  
The length is 1 m longer than twice the width.  
Sind the length  

$$P = 44$$
  $W_{2}$   
 $2L + 2W = 44$   $W_{2}$   
 $2(2x+1) + 2x = 44$   $L = 2x + 1$  C) 15  
 $4x + 2 + 2x = 44$   $L = 2(7) + 1$  D) 5m  
 $6x + 2 = 44$   $X = 42$   
 $6x + 2 = 44$   $X = 42$