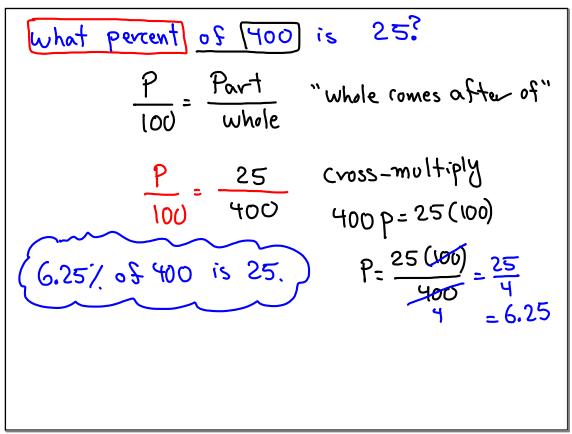


Translate only: Twice the difference between 10 and Some number is equal to the sum of Square of the number and -10.  $2(10 - \chi) = \chi^{2} + (-10)$  $2(10 - \chi) = \chi^2 - 10$ 



72 of 120 Students had iphone.  
At this rate, how many students have  
iPhone if we have 4000 Students?  

$$\frac{72 \text{ iPhone}}{120 \text{ Students}} = \frac{\chi \text{ i Phone}}{4000 \text{ Students}}$$

$$\frac{72}{120} = \frac{\chi}{4000} \quad \text{Cross-Multiply}$$

$$120 \chi = 72(4000)$$

$$\chi = \frac{72(4000)}{120}$$

$$\chi = \frac{72(4000)}{120}$$

September 26, 2016

In a townhall meeting, There were 67 people. The number of females was 1 fewer than) 3 times the number of (males) How many of each? Total = 67Males + Females = 67 Females -> 3x -1 Males → X 3(1)-1= (x) + (3x-1) = 6750  $4\chi - 1 = 67$ 17 Males 4x=67 +1 50 Females  $4\chi = 68$ -x= 68 X=17

A triangular billboard has a perimeter of 57 ft. All 3 sides are equal. find how long each side is. P = 57a+6+C=57  $\chi + \chi + \chi = 57$ X 3x = 57 $\chi = \frac{5}{3}$   $\chi = 19$ X each side is 19 ft.

The perimeter os a triangular garden is 66 meters. one side is twice another side. The third side is 6m shorter than 3 times the shorter side of first two sides. find all 3 Sides. Side 1 ->x -x 12m  $3\chi - 6$ Side 2 - 2x -> 24 m, and ) P = 66  $\begin{array}{c} 4 & 4 & 4 \\ 0 + \rho + c = ee \end{array}$ Side 3 -> 3x - 6 -> 30m 6x=66+6 7x + 8x + 3x-6=66 $\chi_{=12} = \chi_{=} = \frac{12}{\chi} = \frac{6\chi_{=} - 12}{4\chi_{=}} = \frac{6\chi_{-} - 6}{4\chi_{=} - 6}$ 

The length of a rectangular room is 4 times its width. 40m 10mo 4 times **₩=**X The perimeter is 100 m. 4(10)=40 i) find its dimensions. P=100 (+) -210X=100 10m by 40m 21 + 2W = 100x=100 2) find its area. 2(4x) + 2(x) = 10010  $(\chi = 10)$ 8x +2x =100 3) find cost for carpet if it is \$4/ sqr. meter. A=LW Cost = 4 ( 400) = 40(10)\$1600  $A = 400 m^2$ 

The width of a rectangular field is 10 ft  
shorter than its length.  
The perimeter is 180 ft.  

$$find$$
 its area.  
 $P = 180$   
 $2x + 2(x - 10) = 180$   
 $4x - 20 = 180$   
 $4x = 180 + 20$   
The width of a rectangular field is 10 ft  
 $40$  ft  
 $40$  ft  
 $10$  ft  
 $1$ 

A vectangle has perimeter of 306 in.  
The length is In. longer that 3 times its width.  
Find the measure of its length. P=306  
(A) 38 [ength 
$$\rightarrow 3\chi + 1$$
 (21+2W=306  
(3) 38 in. (1) 2(3xt1)+2\chi=306  
(3) 38 in. (2) 115 in. (2) 115 in. (3) (38) + 1  
(2) 115 in. (2) 115 in. (3) (38) + 1  
(2) 115 in. (2) (38) + 1  
(2) 115 in. (2) (38) + 1  
(2) (3xt1) + 2\chi = 306  
(3) (38) + 1  
(2) (3xt1) + 2\chi = 306  
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