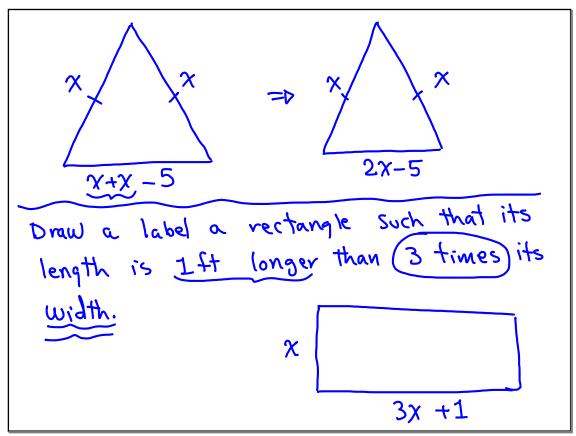


Translate only:
twire some number increased by 10 is
equal to Square of the number less -10.
Let x be the number

$$2\chi + 10 = \chi^2 - (-10)$$

 $2\chi + 10 = \chi^2 + 10$
Draw & label a triangle with two equal sides
and third side is 5 cm shorter than the
Sum of equal sides.



What percent
$$0$$
 80 is 120?
 $\frac{P}{100} \cdot 80 = 120$
 $\frac{80}{100} P = 120$
 $\frac{8}{10} P = 150$
 $\frac{150}{80} \text{ is } (20, 10)$

Among 400 Voters in LA, 175 Voted for
Mr. Trump. Use this ratio to find how
many people Voted for Mr. Trump from
a population 25000.
$$\frac{400}{175} \frac{400}{175} \frac{25000}{175} \frac{25000}{175} \frac{10937.5}{170mp} = \frac{25000}{175} \frac{25000}{175} \frac{400}{175} \frac{25000}{175} \frac{400}{175} \frac{25000}{175} \frac{175(25000)}{100}$$

In a math class, there were 48 Students.
The number of female students was
3 times the number of male students.
How many of each group?
Total: 48 Parts Males
$$\rightarrow 3x$$

Males + Females = Total
 $x + 3x = 48$
 $4x = 48$ [$x = 12$]
 $x + 36$ Females

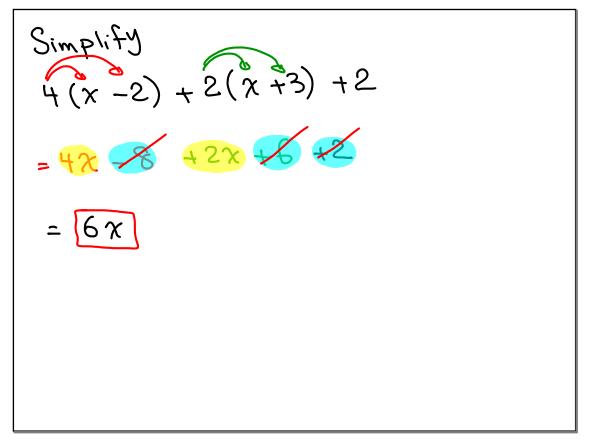
John purched a total of 52 notebooks.
the number of large notebooks was 1
more than twice the # of Small notebooks.
How many of each?
Total = 52 Parts Small =
$$\chi$$

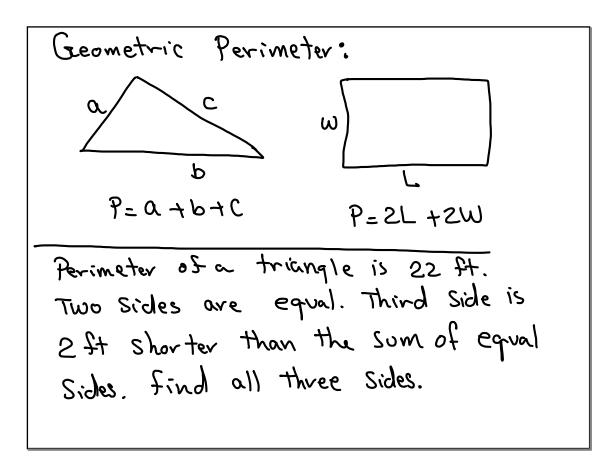
Large = $2\chi + 1$
 $\chi + 2\chi + 1 = 52$
 $3\chi + 1 = 52$
 $\chi = \frac{51}{3}$
 $\chi = 52 - 1$
 $\chi = 11$

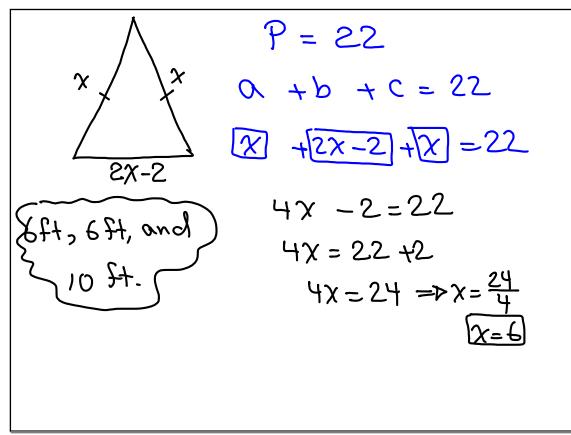
Distributive Prop:

$$0(b + c) = ab + ac$$

 $3(x + 1) = 3x + 21$
 $2(2x - 3) = 2(2x) - 2(3)$
 $= 4x - 6$
Simplify
 $3(2x + 4) + 2(x - 1) = 6x + 12 + 2x - 2$
 $= 8x + 10$







The perimeter of a rectangle is 42in. Its width is I in Shorter than its length. P = 42 in. find its dimensions. 2L + 2W = 4210 in. X-1 $2\chi + 2(\chi - 1) = 42$ 2x + 2x -2 = 42 $\chi = \frac{44}{4}$ $\Im = 4\chi - 2 = 42$ | 4x = 42 + 2 $\chi = 11$ 11 in by $4\chi = 44$ 10 in.

The length of a rectangle is 1m
longer than 3 times its width.
The perimeter is 26m. find its area.
$$P = 26m$$

 χ m 2L + 2W = 26
 $2(3x+1) + 2x = 26$
 $3x+1$ $6x + 2 + 2x = 26$
Area is $x = \frac{24}{8} = \frac{8x}{42} + 2x = 26$
 $8x = 26-2$
 $8x = 26-2$
 $8x = 24$