185.10+185.2

I can write a ratio.

185 x12 = 1850 + 370

The Learning Tower of Pisa in Italy is about 185 ft tall. A model of the Leaning Tower in 6 in tall. What is the ratio of the height of the model to the height of real tower?

$$\frac{\text{model}}{\text{real}} = \frac{6}{2220} = \frac{1}{370}$$

$$\frac{2^{1} \cdot 2}{12^{5}} = \frac{1}{370}$$

I can write a proportion.

The scale of a map is 1 in = 40 mi. Write a proportion to find the distance in miles if the distance on the map is 3.5

$$\frac{map}{real} = \frac{map}{real} = \frac{1}{40} = \frac{3.5}{x}$$

$$x = 140$$

$$140 \text{ m.les}$$

I can solve a proportion

$$\frac{2x-1}{x} = \frac{x+1}{3}$$

$$X(X+1) = 3(2X-1)$$

$$x^{2} + x = 6x - 3$$
 $|x^{2} - 5x + 3 = 0$

$$x = -\frac{5 \pm \sqrt{(-5)^2 - 4(1)(3)}}{2(1)} = \frac{5 \pm \sqrt{25 - 12}}{2}$$

$$\chi = \frac{5 \pm \sqrt{13}}{3}$$

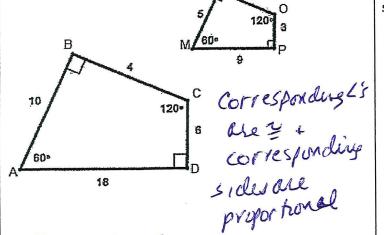
I can solve a proportion

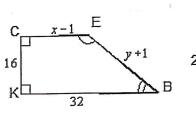
$$\frac{18}{n+6} = \frac{6}{n}$$

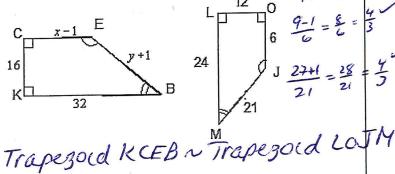
I can determine and explain if polygons are similar. Prove that the following quadrilaterals are similar and write similarity statement.

I can use similar figures properties to solve for a variable or missing side.

The two trapezoids are similar. Write a similarity statement and find the value of x and y.







5=2=3=9=1

 $\frac{32}{24} - \frac{9+1}{21} + \frac{4}{3} - \frac{9+1}{21} + \frac{84}{3} + \frac{3(9+1)}{9+1} = 28$

 $\frac{32}{24} = \frac{x-1}{6} \quad \frac{4}{3} = \frac{x-1}{6} \quad \frac{24 = 3(x-1)}{x-1 = 8}$