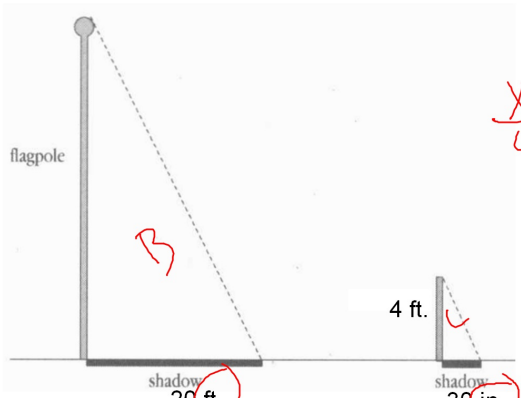
1. Find the height of the flagpole. Be careful!



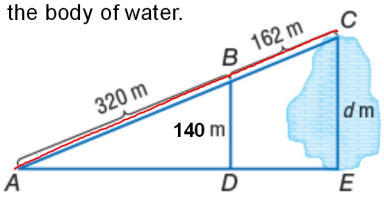
B/L

$\frac{X}{4} = \frac{20}{2.5}$

$X = 32$ ft

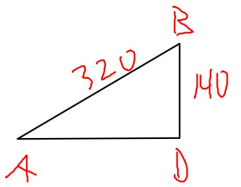
Convert this to 2.5 ft.

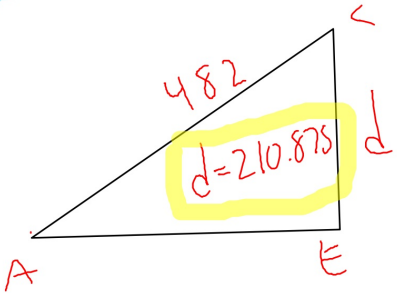
2. Use the measurements made on land to find the distance across the body of water.



L/B

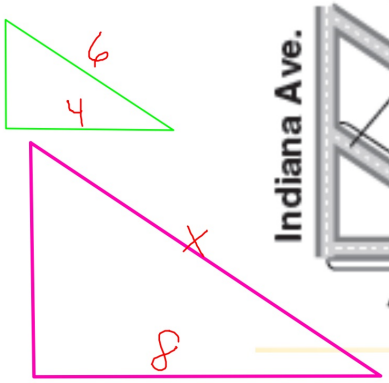
$\frac{320}{482} = \frac{140}{d}$

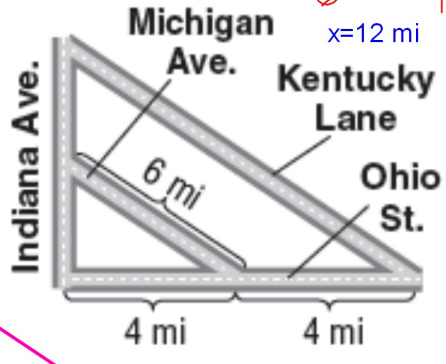




3. How long is Kentucky Lane?

B/L $\frac{x}{6} = \frac{8}{4}$





x=12 mi

Using Similar Figures:

Scale Drawings:
Drawing of an actual object that is either larger (enlargement) or smaller (reduction) than the actual object but similar to it.

$$\text{Scale of a drawing} = \frac{\text{drawing measure}}{\text{actual measure}}$$

Does each scale represent an enlargement or a reduction?

1. 5:6
Reduction $5/6 < 1$

2. 45:2
Enlargement $45/2 > 1$

3. 2:1
Enlargement $2/1 > 1$
(drawing is twice as big)

4. 1:3
Reduction $1/3 < 1$
(Drawing is one third the size)

5. 1:1
Figures are the same size so we would call them Congruent instead of Similar.