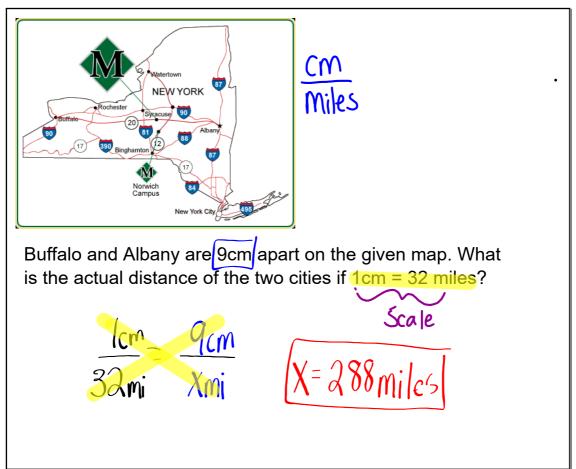
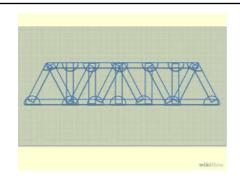
Scale Drawings:

Used to represent objects that are too BIG or too Small to draw * Use Proportions to Solve *

Sep 14-6:49 PM



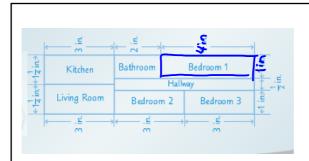
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A model bridge uses a <u>scale</u> of <u>1/4 inch</u> = <u>3 yards</u>. The actual bridge is <u>50 yards long</u>. Find the length of the model.

$$\frac{3 \cdot \mathbf{X}}{3} = \frac{12.5}{3}$$

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The floor plan for the home shown has a scale of 1/2 inchrepresents 3 feet of the actual home. What is the actual area

represents 3 feet of the actual home. What is the actual area of bedroom #1?

$$\frac{1}{2} = 3 + \frac{1}{3} = \frac{1}{2} \times \frac{1}{3} = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \times \frac{$$

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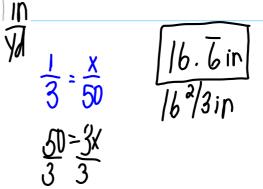
Your Turn...

 On a map, the distance from Akron to Cleveland measures 2 centimeters. What is the actual distance if the scale of the map shows that 1 centimeter is equal to 30 kilometers? (Example 1)

 $\frac{Cm}{Km} = \frac{30 \times 2 = 60 \text{ km}}{30 = \frac{2}{X}}$

2. An engineer makes a model of a bridge using a scale of 1 inch = 3 yards. The length of the actual bridge is 50 yards. What is the length of the model?

(Example 2)



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