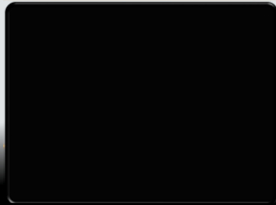


MasterMath

NUMBER SENSE

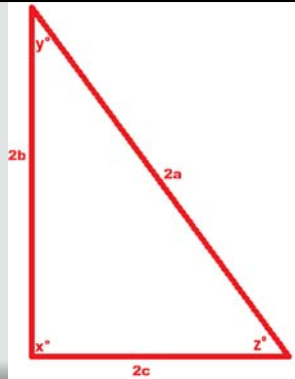
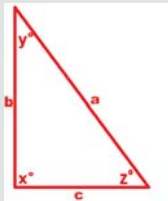
Scale Drawings and Models





Scale Drawings and Models



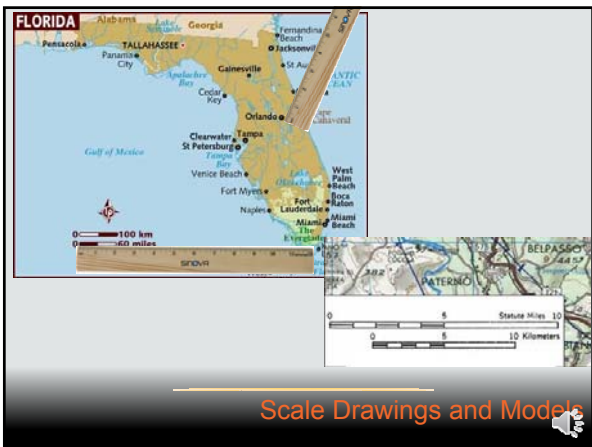


Scale Drawings and Models









You try it!

The scale on the map is 1" = 10 mile. You measure the distance from your house to State College, and it measures 3.25". What is the actual ("as the bird flies") distance from you house to State College?

Scale Drawings and Models

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The scale on the map is 1" = 10 mile. You measure the distance from your house to State College, and it measures 3.25". What is the actual ("as the bird flies") distance from you house to State College?

$$\frac{10 \text{ miles}}{1'} = \frac{x}{3.25''}$$
$$32.5 \text{ miles} = x$$

Scale Drawings and Models

You try it!

Your new room is 10' long by 12' wide. Your father made a scale drawing of the room so you could plan where to put yur furniture. On the scale drawing, the width of your room measures 6". What scale did your father use for his drawing?

Scale Drawings and Models

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$$\frac{6''}{12'} = \frac{x''}{1'}$$


$$\frac{6}{12} = x$$

$$\frac{1}{2} = x$$

$$\frac{1}{2}'' \text{ or } \frac{1}{2}'' : 1'$$

Scale Drawings and Models

You try it!
 On the scale drawing, the flower bed measures 2" x 4". The scale of the drawing is 1" = 5'. What is the area of the real garden?



Scale Drawings and Models

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 On the scale drawing, the flower bed measures 2" x 4". The scale of the drawing is 1" = 5'. What is the area of the real garden?

$$\frac{x'}{2''} = \frac{5'}{1''}$$

$$x = \frac{5 \cdot 2}{1} = 10'$$

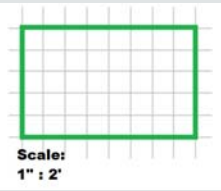
$$\frac{x}{4''} = \frac{5'}{1''} = 20'$$

$10' \times 20' = 200 \text{ SQ FT}$

Scale Drawings and Models

You try it!

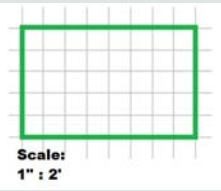
On this scale drawing, each square has a side width of $\frac{1}{4}$ ". What are the actual dimensions of the shape shown in the scale drawing?



Scale Drawings and Models

You try it!

On this scale drawing, each square has a side width of $\frac{1}{4}$ ". What are the actual dimensions of the shape shown in the scale drawing?



$8 \times \frac{1}{4}$ by $5 \times \frac{1}{4}$

$\frac{8}{4}$ by $\frac{5}{4}$

$2 \times 1\frac{1}{4}$

$2 \cdot 2$ by $1\frac{1}{4} \cdot 2$

$= 4' \times 2\frac{1}{2}'$

Scale Drawings and Models

You try it!

Now, try it on your own. Go to www.MasterMath.info download Scale Drawings and Models from the Worksheets Page, and test your skill.

Scale Drawings and Models
