Scale Drawings and Models



You will interpret scale models

You will use scale factors to solve problems

Scale Models/Scale Drawings

models or drawings that are prop'l to an actual item

Scale Ratio model / drawing actual .75 in ,75 in: 6mi Scale Factor unitless ratio in simplist form -75K/FK 1 mi 6 Mi 12 in 5280 ft, 380, 160.75

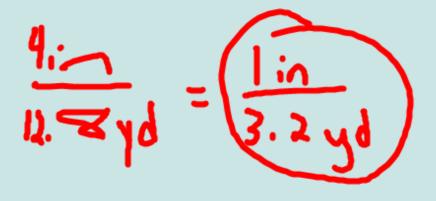
MAPS The distance between Boston and Chicago on a map is 9 inches. If the scale of the map is 1 inch: 95 miles, what is the actual distance from Boston to Chicago?

$$\frac{1n}{95mi} = \frac{9in}{x}$$

$$1x = 9(95)$$

$$x = 955 \text{ Miles}$$

A. SCALE MODEL A miniature replica of a fighter jet is 4 inches long. The actual length of the jet is 12.8 yards. What is the scale of the model?



B. SCALE MODEL A miniature replica of a fighter jet is 4 inches long. The actual length of the jet is 12.8 yards. How many times as long as the actual is the model jet?

SCALE DRAWING Gerrard is making a scale model of his classroom on an 11-by-17 inch sheet of paper. If the classroom is 20 feet by 32 feet, choose an appropriate scale for the drawing and determine the drawing's dimensions.

$$32 \div 17 = 1 - 3$$

$$\frac{1}{32 \div 17} = \frac{1}{3} = \frac{1}{32} = \frac{1}{16} = \frac{1}{16}$$