

Scale Drawings and Scale Models Homework

Identify the scale factor.

1.

	Bear	Stuffed Animal
Height (in.)	62	15.5

2.

	House	Dollhouse
Height (ft)	32.4	2.7

3.

	Airplane	Model
Length (ft)	25.5	1.5

4.

	Alligator	Toy Alligator
Length (in.)	128.1	6.1

The scale factor of each model is 1:16. Find the missing dimensions.

	Item	Actual Dimensions	Model Dimensions
5.	barn	height: 32 ft length:	height: length: 3.5 ft
6.	submarine	length:	length: $18\frac{3}{4}$ ft
7.	bookcase	height: 96 in.	height:
8.	tree	height:	height: $2\frac{1}{2}$ ft
9.	car	length: 13 ft height: 5.5 ft	length: height:
10.	shark	length:	length: $14\frac{1}{4}$ in.

11. Hillary took a photograph of her house, which has an actual height of 28.5 feet. If the house measures 3.6 inches tall in the photograph, what is the scale factor? _____

12. On a road map, the distance from Portland to Seattle is 8 centimeters. The map scale is 2 cm:37.5 mi. What is the actual distance between the cities? _____

13. A sculptor plans a statue by making a drawing to scale. On the drawing, the statue is $8\frac{2}{5}$ inches tall. The scale factor in the drawing is $\frac{1}{23}$. Find the height of the statue. _____