

Name: ..... Class: .....

### Scale drawings word problems

1. Charles drew the scale of a building and its parking lot. He used the scale 100 inch : 8 feet. In the drawing, the parking lot is 500 inches long. What is the length of the actual parking lot.
2. Mr. Freddy is an architect. He measured the length of the road and made a scale drawing. 1 inch represents 30 miles in the scale of the drawing. If the length of the road in real life is 600 miles, what is the length of the road in the drawing?
3. Peter is a very gifted artist. He designed a bridge in a drawing with a scale of 1 inch is to 25 miles. In the drawing, the length of the bridge is 20 inches, what is the length of the bridge in real life?
4. Andrew was given a contract to do a scale drawing of a mall. In real life, an accessory shop in the mall is 70 feet long. If in the drawing it is 14 inches long, what is the scale of the drawing?
5. Demian is brilliant architect. Today, he draws a scale of a church building. He went further to use a scale of 1 mm : 5 m. if the height of the church's building in the drawing is 9 mm, what is the actual height of the church's building?
6. During class art practice yesterday, Kevin drew a scale of a fish pond. He used the scale 1 centimeter : 3 meters. In real life, the pond is 25 meters wide. How wide is the pond in the drawing? Write your answer to the tenths place.
7. Peter measured a volleyball court and did a well presentable scale drawing of it. In the drawing, the volleyball court is 9 centimeters long and 18 meters long in real life. What scale did he use?

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1. write the scale of the drawing as a fraction.  
 100 inch(in) is to 8 feet (ft) = 100in/8ft.  
 Use proportional relationship to solve this problem.  
 If 100in is to 8ft,  
 Then 500in is to

$$\frac{500\text{in} \times 8\text{ft}}{100 \text{ in}} = 40\text{ft}$$

Therefore, the actual parking lot is 40ft

2. Therefore, the length of the road in the drawing is 20 inches.

3. Therefore, the length of the bridge in real life is 500 miles.

4. The scale of the drawing is 1 inch : 5 feet.

5. The actual height of the church's building is 45 meters.

6. The pond is 8.3 centimeters wide in the drawing.

7. He used a scale of 1 centimeters : 2 meters