53. How to make a scale diagram from actual measurements

Scenario Questions:

1. The height of a building is 10 meters. What would the height of the model be on a scale drawing using a scale of 1:500?

2. The length of a car is 4 meters. If you were to draw a scale model of the car using a scale of 1:200, what would the length of the model be?

3. The width of a garden is 20 meters. If you were to make a scale drawing of the garden using a scale of 1:100, what would be the width of the model?

4. The diameter of a circle is 8 meters. What would be the diameter of the circle in a scale drawing using a scale of 1:50?

5. The distance between two cities is 150 kilometers. If you were to create a scale map using a scale of 1:500, what would be the distance between the two cities in the map?

53. How to make a scale diagram from actual measurements

Scenario Questions:

6. The length of a swimming pool is 25 meters. What would be the length of the model on a scale drawing using a scale of 1:250?

7. The width of a room is 6 meters. If you were to draw a scale diagram of the room using a scale of 1:1000, what would be the width of the model?

8. The altitude of a mountain is 5000 meters. What would be the altitude of the model on a scale drawing using a scale of 1:10000?

9. The distance between two landmarks is 2 km. If you were to make a scale drawing using a scale of 1:5000, what would be the distance between the two landmarks on the drawing?

10. The length of a football field is 100 meters. What would be the length of the model on a scale drawing using a scale of 1:1000?

53. How to make a scale diagram from actual measurements

Scenario Questions: **Answers**

1. The height of a building is 10 meters. What would the height of the model be on a scale drawing using a scale of 1:500?

1. 2cm (0.02m)

2. The length of a car is 4 meters. If you were to draw a scale model of the car using a scale of 1:200, what would the length of the model be?

2. 2cm (0.02m).

3. The width of a garden is 20 meters. If you were to make a scale drawing of the garden using a scale of 1:100, what would be the width of the model?

3. 20cm (0.2m).

4. The diameter of a circle is 8 meters. What would be the diameter of the circle in a scale drawing using a scale of 1:50?

4. 16cm (0.16m).

5. The distance between two cities is 150 kilometers. If you were to create a scale map using a scale of 1:500, what would be the distance between the two cities in the map?

5. 300m (0.3 kilometers).

6. The length of a swimming pool is 25 meters. What would be the length of the model on a scale drawing using a scale of 1:250?

6. 10cm (0.1m).

7. The width of a room is 6 meters. If you were to draw a scale diagram of the room using a scale of 1:1000, what would be the width of the model?

7. 6mm (0.6cm or 0.006m).

8. The altitude of a mountain is 5000 meters. What would be the altitude of the model on a scale drawing using a scale of 1:10000?

8. 50cm (0.5 m).

9. The distance between two landmarks is 2 kilometers. If you were to make a scale drawing using a scale of 1:5000, what would be the distance between the two landmarks on the drawing?

9. 40cm (0.4m).

10. The length of a soccer field is 100 meters. What would be the length of the model on a scale drawing using a scale of 1:1000?

10. 10cm (0.1m).