

Worksheet: Solving for Area Problems

1. A rectangular garden has a length of 15 meters and a width of 8 meters. Calculate the area of the garden. How much soil is needed to cover the garden if the soil is 10 centimeters deep? How much soil is needed to cover the garden if the soil is 20 centimeters deep?

2. A square tile has a side length of 10 centimeters. Calculate the area of the tile. How much tile is needed to cover a square floor that is 2 meters by 2 meters? How much tile is needed to cover a square floor that is 3 meters by 3 meters?

3. A rectangular floor is 4 meters by 6 meters. How many square tiles are needed to cover the floor if each tile is 1 meter by 1 meter? How many square tiles are needed to cover the floor if each tile is 2 meters by 2 meters?

4. A square tile has a side length of 10 centimeters. Calculate the area of the tile. How many tiles are needed to cover a square floor that is 2 meters by 2 meters? How many tiles are needed to cover a square floor that is 3 meters by 3 meters?

5. A rectangular floor is 4 meters by 6 meters. How many square tiles are needed to cover the floor if each tile is 1 meter by 1 meter? How many square tiles are needed to cover the floor if each tile is 2 meters by 2 meters?