Name:

Date:

School:

Facilitator:

9.04 Perimeter, Area, and Volume Calculations

**Solve the following 10 problems.**

1. How many square yards of carpet will be needed for a 12 ft by 9 ft room?

1. How many square yards of carpet will be needed for a 21 ft by 15 ft room?

1. How many cubic yards of concrete should you buy for a patio that is 4 inches thick with dimensions 9ft by 12 ft?

1. How many cubic yards of concrete should you buy for a patio that is 4 inches thick with dimensions 12 ft by 15 ft?

1. How many linear ft of fencing will you need for a dog pen that is 5 ft by 8 ft?

1. How many linear ft of fencing will you need for a pasture that is 200 ft by 180 ft?

1. How many gallons of water will a 4 ft by 10 ft pool that is 5 ft deep hold if 1 cubic foot of water is equal to 7.48 gallons?

1. How many gallons of water will a 5 ft by 20 ft pool that is 6 ft deep hold if 1 cubic foot of water is equal to 7.48 gallons?

1. How many gallons of paint will you need to buy if you are painting a room that is 30 ft by 50 ft with walls 10 ft high? Each gallon of paint should cover 300 square ft.

1. How many gallons of paint will you need to buy if you are painting a room that is 25 ft by 30 ft with walls 9 ft high? Each gallon of paint should cover 400 square ft.