Area and Perimeter Word Problems

These are multi-step problems. Find the area or perimeter and then find the cost. You can use the space provided on the right to show your work. The first one is done for you.

1. Jane wants to install new carpet in her living room. The room length is 20 ft. and the width is 20 ft. If the cost of the carpet is $10.00 sq ft. What will be the total cost to carpet Jane’s living room?

   Total carpet cost: $4000

2. Jim is installing wood molding for his new family room. The molding will go around the entire room. The molding costs $3.00 per ft. If the room is 30 ft. in length and 20 feet in width, what will be the total cost of the molding?

   Total molding cost: ________________
Area and Perimeter Word Problems

These are multi-step problems. Find the area or perimeter and then find the cost. You can use the space provided on the right to show your work.

3. Alice wants to build a wall around her garden. She has gotten an estimate that it will cost $20.00 per foot to have the wall built. Her garden is 40 feet long and 15 feet wide. How much will the wall cost if it is built all around the outside of her garden?

   ![Diagram of Alice's Garden]

   Total wall cost: ____________

4. Skip owns a bicycle and skateboard shop. He wants to install wood flooring in the showroom area of his shop. The showroom area is 40 feet long and 30 feet wide. The cost for the flooring is $4.00 per square foot. How much will it cost Skip to put wood flooring in his bike and skateboard shop?

   ![Cartoon of Skip]

   Total flooring cost: ____________
Area and Perimeter Word Problems Worksheet 1

1. Jane wants to install new carpet in her living room. The room is 20 ft long and 15 ft wide. If the cost of the carpet is $10.00 per sq ft. What will be the total cost to carpet Jane’s living room?

   \[
   \begin{array}{ccc}
   \text{20} & \times & \text{20} \\
   \hline
   00 & \times & \text{10} \\
   \hline
   \text{400} & \times & \text{400} \\
   \hline
   \text{4000} \\
   \end{array}
   \]

   Total carpet cost: $4000

2. Jim is installing wood molding for his new family room. The molding will go around the entire room. The molding costs $3.00 per ft. If the room is 30 ft in length and 20 ft in width, what will be the total cost of the molding?

   \[
   \begin{array}{ccc}
   \text{30} & \times & \text{30} \\
   \hline
   00 & \times & \text{30} \\
   \hline
   \text{20} & \times & \text{30} \\
   \hline
   \text{200} \\
   \end{array}
   \]

   \[
   \begin{array}{ccc}
   \text{20} & \times & \text{30} \\
   \hline
   \text{100} \\
   \end{array}
   \]

   \[
   \begin{array}{ccc}
   \text{100} \times \text{3.00} = \text{300.00} \\
   \end{array}
   \]

   Total molding cost: $300.00

Are and Perimeter Word Problems Worksheet 2

3. Alice wants to build a wall around her garden. She has gotten an estimate that it will cost $20.00 per foot to have the wall built. Her garden is 40 feet long and 15 feet wide. How much will the wall cost if it is built all around the outside of her garden?

   \[
   \frac{40 \times 110}{1200} = \frac{220000}{1200} = 183.33
   \]

   Total wall cost: $2,200.00

4. Skip owns a bicycle and skateboard shop. He wants to install wood flooring in the showroom area of his shop. The showroom area is 40 feet long and 30 feet wide. The cost for the flooring is $4.00 per square foot. How much will it cost Skip to put wood flooring in his bike and skateboard shop?

   \[
   \begin{array}{ccc}
   \text{40} & \times & \text{30} \\
   \hline
   \text{1200} & \times & \text{4.00} \\
   \hline
   \text{4800} \\
   \end{array}
   \]

   Total flooring cost: $4,800.00

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