Living Room Redecoration

Part 1: Complete the chart by calculating the necessary areas and perimeter.

<table>
<thead>
<tr>
<th>Room Dimensions</th>
<th>Perimeter (Floor or Ceiling)</th>
<th>Area of Floor</th>
<th>Surface Area of Walls (Including Doors and Windows)</th>
<th>Area of Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length = 16 feet Width = 20 feet Height = 8 feet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Part 2: Use the chart to answer the following questions.

1. If carpeting is $1.50 per square foot, how much will it cost to replace the carpet in the living room?

2. If one gallon of paint covers 800 square feet, how many gallons are needed to paint the walls with two coats?

3. If one gallon cost $8.99, how much will it cost to paint both the walls and the ceiling with two coats?

4. If one roll of wallpaper border contains 15 linear feet, how many rolls of trim are needed to put a border near the top of all four walls?

5. At a cost of $14.95 a roll, how much will it cost to put the border near the top of all four walls?

6. If your budget allows $500-$550 for redecorating the living room, do you have enough money? Explain your answer in 1-2 sentences.

7. If you don’t have enough money, what changes could you make to the plan? Explain your answer in 1-2 sentences.
Living Room Redecoration Answer Key

Part 1:

<table>
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<tr>
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<th>Surface Area of Walls (Including Doors and Windows)</th>
<th>Area of Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length = 16 feet</td>
<td>72 feet</td>
<td>320 square feet</td>
<td>576 feet</td>
<td>320 square feet</td>
</tr>
<tr>
<td>Width = 20 feet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height = 8 feet</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

Part 2:

1) $480.00
2) 2 gallons of paint are needed
3) $26.97
4) 5 rolls are needed
5) $74.75
6) $31.72 over budget
7) Answers will vary.