A certain company that produces a line of traffic cones is preparing to bid on a contract that will require it to paint its cones one of three colors: red, green and blue. As part of its proposal, the company must estimate the cost of painting the cones the different colors. The cost per square foot of painting the cones (which includes paint costs, labor costs, etc.) is given in the table below.

<table>
<thead>
<tr>
<th>Color of Paint</th>
<th>Cost Per Square Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>$0.10</td>
</tr>
<tr>
<td>Blue</td>
<td>$0.15</td>
</tr>
<tr>
<td>Green</td>
<td>$0.18</td>
</tr>
</tbody>
</table>

Write a C++ program that will

1. prompt the user to input the height of the cone (in inches) as well as the diameter of the base of the cone (again in inches),
2. output the surface area (in square feet) of the cone and
3. output the cost of painting the cone each of the three colors.

A typical user/computer dialog should look something like what appears below.
Input the height of the cone in inches: 30
Input the diameter of the base of the cone in inches: 10

The surface area of the cone is: 3.32 square feet.

The painting cost for
- Red is: 0.332 dollars per cone
- Blue is: 0.498 dollars per cone
- Green is: 0.597 dollars per cone