April 5, 2014
■ RIT Competition ■
Target Round
Problems 5-8

Name _______________________________________________

DO NOT BEGIN UNTIL YOU ARE INSTRUCTED TO DO SO.

<table>
<thead>
<tr>
<th>Total Correct</th>
<th>Scorer’s Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2014 RIT Math Competition
5. Joley wants a bicycle that costs $87. She has already saved $15 and she has a job which earns $4 per hour after taxes. How many hours must she work to earn the additional money needed for the bike?

5. ____________hours

6. What is the sum of the first ten terms of the arithmetic sequence 4, 4.2, 4.4, . . .?

6. _____________

7. Luigi plans to buy 3 T-shirts for $8.75 and 2 jeans for $15.98. With 8% sales tax, how many dollars, to the nearest cent, would he spend altogether?

7. $ _____________

8. A train, traveling at an average speed of 50 miles an hour, leaves Rochester at 2 AM. At what time in the morning will the train arrive in Albany, which is 225 miles away?

8. _____________ AM