



**April 5, 2014**

**■ RIT Competition ■**  
**Target Round**  
**Problems 5-8**

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Name \_\_\_\_\_

**DO NOT BEGIN UNTIL YOU ARE  
INSTRUCTED TO DO SO.**

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Total Correct	Scorer's Initials

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