MATH COMPETITION
FOR STUDENTS WHO ARE DEAF OR HARD OF HEARING

April 6, 2019
■ RIT Competition ■
Target Round
Problems 1 - 8

Name _____

DO NOT BEGIN UNTIL YOU ARE INSTRUCTED TO DO SO.

This section of the competition consists of 8 problems. You will have 24 minutes to complete all the problems. You are allowed to use a basic calculator. You are not allowed to use books or other aids during this round. Calculations may be done on scratch paper. All answers must be complete and legible. If the answer is expressed in common fraction, reduce the fraction to lowest terms. Record your final answer in the designated space on the problem sheet. The required unit for the answer is included. If you complete the problems before time is called, use the time remaining to check your answers.

Total Correct	Scorer's Initials

1. Eight boxes of chocolate candy costs $100. How much would 15 boxes of chocolate candy cost?

1. $ _____

2. Logan has 57 dimes and 113 quarters. Nette has 113 dimes and 57 quarters. How much do Logan and Nette have when they combine their money?

2. $ _____

3. At the Lilac Festival, Patricia recorded the number of T-shirts for each color recently sold. Considering this data, how many of the next 20 T-shirts sold would you expect to be gray?

3. _____

T-Shirt Color	Frequency
Blue	3
Brown	1
Gray	6
Green	1
Purple	1

4. What is the area, in square centimeters, of a circle with a circumference of 10π cm? Write your answer in terms of π.

4. _____ sq cm

5. Aashi rides her bike on a route that is 24 miles long. It takes her 180 minutes to complete the ride. What is her resulting average speed, in miles per hour?
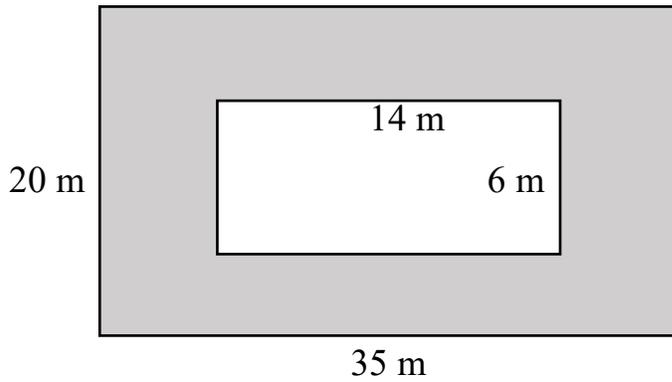
5. _____ mph

6. Hazel watched 2,000 visitors enter a zoo. Half of the visitors were children. If 20% of the children and 9% of the adults were wearing hats, what was the total number of children and adults wearing hats?

6. _____

7. What is the area, in square meters, of the shaded region?   7. _____ sq m

14 m

20 m   6 m

35 m

8. The baseball fans were asked to vote on their favorite nut.   8. _____ degrees
Using the pie chart, what is the measure of the central angle
of the "Almond" section?

Pecan
5%

Peanut
20%

Almond
35%

Chestnut
20%

Hazelnut Pistachio
10%   10%