
 $A = \pi R^2$

$D = \frac{M}{V}$

$V = LWH$

$C = 2\pi R$

$A = L \cdot W$

MATH COMPETITION

FOR DEAF AND HARD-OF-HEARING STUDENTS

April 6, 2013

■ RIT Competition ■
Target Round
Problems 1-4

Name _____

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

This section of the competition consists of 8 problems. You will work on four problems, and answers will be collected, before the next four are distributed. The time limit for each set of four problems is 12 minutes. When told to do so, write your name on this page. When instructed to begin, pick up your pencil and begin working. Record your final answer in the designated space on the problem sheet. All answers must be complete, legible, and simplified to lowest terms. This round assumes the use of a calculator, and calculations may also be done on scratch paper, but no other aids are allowed. If you complete the problems before time is called, use the time remaining to check your answers.

Total Correct	Scorer's Initials

1. Wilma has 3 red pens, 3 blue pens, 4 black pens, and 5 green pens in her school bag. Wilma selects two pens at the same time from the bag. Find the probability that both pens are green. Express your answer as a common fraction.

1. _____

2. How many feet long is the shadow of a 15-foot flagpole if a 5-foot girl standing at the base of the flagpole has a shadow that is six feet long?

2. _____ ft

3. Albert's salary is 30,000 U.S. dollars. Cinna's salary is 29,046 Canadian dollars. If U.S. dollar is equivalent to 1.03 Canadian dollars, by how much, in U.S. dollars, is one salary more than the other?

3. \$_____

4. What is the arithmetic mean of all prime numbers between 20 and 30?

4. _____

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MATH COMPETITION

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April 6, 2013

■ RIT Competition ■
Target Round
Problems 5-8

Name _____

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Total Correct	Scorer's Initials

5. David purchased a boat for a total cost of \$2240. He made a \$440 down payment and agreed to pay the remainder in 24 equal payments. What will be the dollar amount of each payment? 5. \$_____
6. A convex pentagon has interior angles with measures $x + 1$, $2x$, $3x$, $4x$, and $5x - 1$ degrees. A pentagon has interior angles whose sum is 540 degrees. What is the measure of the largest angle? 6. _____ degrees
7. How many different positive, four-digit integers can be formed using the digits 2, 2, 9, and 9? 7. _____
8. The perimeter of a square is 44 inches. How many square inches are in the area of the square? 8. _____sq. in