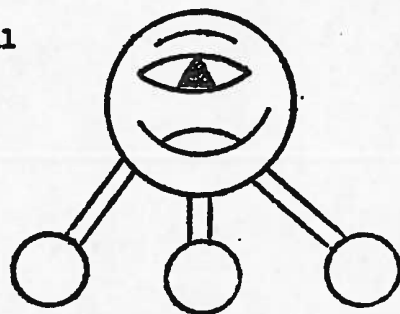# Vintage Timed Sprint

College of Charleston Math Meet
February 22, 2014

Instructions: Each of the questions below appeared exactly as shown in a CofC Math Meet from the early 1980s. Write the exact answer to each question in the corresponding box. Remember that the winners in this event are those participants who answer the most questions correctly *in a row* beginning with the first question. So, try to get as far as you can without making a mistake!

1. What number x must you subtract from the numerators of the fractions 53/60 and 149/180 so that they will be equal?

   # 1:

2. On the right is Marvin the Martian. The Martians are visiting Summerville High School and meet several cheerleaders. There are 22 eyes and 30 feet. How many Martians landed?

   # 2:

3. If Marvin lost 20 pounds, then he would weigh four times as much as his pet boa constrictor. Together they weigh 200 pounds. How much does Marvin weigh?

   # 3:

4. The year 1936 was a square year (1936 has an integral square root). What will be the next square year?

   # 4:

5. Place the digits 7, 6, 8, 3, 5, 2 in the boxes below to obtain the greatest difference. What is that difference?

   ☐ ☐ ☐
   − ☐ ☐ ☐

   # 5:

6. S ___ W   ΔFIT is equilateral.

   ☐SFIW is a square with side 10.

   F 10 I   Find the area of the shaded region.

   # 6:

COLLEGE *of* CHARLESTON

**Math Meet
February 22, 2014
Timed Sprint**

Name (please print): _____

School Name: _____

Grade: _____

The grading for the Timed Sprints is unusual! Your grade will be the number of questions answered correctly, starting with the first question, before you make a mistake. For example, if you only answer questions 1-4 correctly and questions 7-13 correctly, your grade will be a "4" since you did not get question 5 right. You will have a limited amount of time to work on the sprint. Your paper will be collected at the end of this period.

By my signature below I certify that all of the work completed on this sprint is my own.

_____