1. Only one number between 33,000 and 34,000 with units digit 6 is a perfect square. What is the sum of that number's tens and hundreds digits?

1.

2. Michael tells the following riddle about his favorite 2. number: "My number is the sum of 126 plus one-fourth my number minus one-eighth my number." What is Michael's favorite number?

3. Jessica ran the 6.2-mile Bolder Boulder road race in 55 minutes. At the same pace, how many minutes will it take her to run the Horsetooth Half-Marathon (13.1 miles)? Express your answer as a decimal to the nearest tenth.

3.

1989-2000 School Competition at Target Round

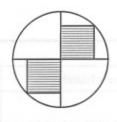
DO NOT BEGIN UNTIL YOU ARE INSTRUCTED TO DO SO

4. George and Leo each toss a number tetrahedron with the numbers 1–4 on the faces. They then multiply the resulting pair of numbers. If the product is less than 9, George wins; otherwise, Leo wins. What is the probability that Leo will win? Express your answer as a common fraction. 4.

Alex	9.0	9.0	8.5	10.0	8.0	9.5	9.5
Brenda	9.3	9.9	10.0	9.5	9.7	8.0	8.6

6. In the figure shown, each shaded region is a square with one vertex at the center of the circle and the opposite vertex on the circumference of the circle. The radius of the circle is 10 inches. If a dart is thrown and hits inside the circle, what is the probability that it will land inside a shaded region? Express your answer as decimal to the nearest hundredth.

6. \_\_\_\_\_



7. The stereos sold at the We Are Music store are reduced 30%. Employees get an additional 15% discount off the reduced price. The purchase price of a stereo for an employee during the sale is \$297.50. How many dollars was the original price of the stereo?

7.

8. Ninety-six girls were surveyed at Euclid High School. There were 48 softball players and 45 track athletes. If <sup>1</sup>/<sub>6</sub> of the girls surveyed did not play either sport, how many girls played both sports? 8.