The following questions are designed to help assess whether or not you have the necessary quantitative skills to take full advantage of the course content in this class. Please answer the questions without a calculator. You will not be graded on your score, but will receive full credit for completing it conscientiously. If you do poorly, we can help guide you to resources on campus to improve your quantitative skills.

R. M. Richardson

1. If  then x =

 (A) –36 (B) –1 (C) 1 (D) 9 (E) 41

2. 

 (A) 6.0 ×10–3 (B) 6.0 × 10–2 (C) 6.0 × 10–1 (D) 6.0 × 102 (E) 6.0 × 103

3. If a map is drawn to a scale of 3 inches to 200 miles, how many inches on the map represent 300 miles?

 (A)  (B) 2 (C)  (D) 6 (E) 9

4. If 5 pounds of apples cost *K* cents, then the cost of 8 pounds of apples is

 (A) 0.625 *K* cents (B) 1.375 *K* cents (C) 1.6 *K* cents (D) 5 *K* cents

 (E) 8 *K* cents

5. A student who correctly answered 60 questions on a test received a score of 75%. How many questions were on the test?

 (A) 45 (B) 75 (C) 80 (D) 85 (E) 125

6. 106 is how many times larger than 103?

 (A) 2 (B) 3 (C) 10 (D) 100 (E) 1000

7. Which of the following could be a portion of the graph of *y* = –*x*?

  

  

 

8. The perimeter of a rectangular field is 1,200 feet, and the field is 50 feet longer than it is wide. What is the length, in feet, of the field?

 (A) 250 (B) 275 (C) 300 (D) 325 (E) 625