Math 206 - Quiz 2

Name _____

February 3, 2010

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (1 point) A grasshopper can jump 20 times its length. If jumping ability in humans was proportional to a grasshopper's, how far could a 6-ft tall person jump?

2. (2 points) The ratio of the length to the width of a picture frame is $7 : 5$. Find the width of the frame if its length is 32 in. After you have found the width, write all four different proportions that model the problem situation.

3. (1 point) A letter is drawn at random from the word MATHEMATICS. What is the probability of drawing a vowel?

4. (1 point) John and Sally run a landscaping business. John can mow 3 yards in 2 hours, while Sally can mow 4 yards in 3 hours. Working together, how long would it take them to mow 2 yards?