

**Math 70 Quiz #8**  
**November 16, 2010**

Name: \_\_\_\_\_

Show all work and answers on a separate paper. Staple this sheet to your answers. **Simplify** your answers as much as possible. No calculators are permitted on this quiz.

1. (3 pts.) My pet tortoise Herbie travels at a constant speed of 1.3 feet per minute. How far can Herbie travel in 30 minutes? (Include units in your answer.)
  
2. For the next two word problems, list unknowns, define a variable, **use equations** to solve, and answer in a complete sentence.
  - (a) (4 pts.) The perimeter of a certain rectangle is 13 inches. The length of the rectangle is 1 less than double the width. Find the length and the width of the rectangle.
  
  - (b) (5 pts.) There are several actors that have played James Bond, including Sean Connery, Roger Moore, and Timothy Dalton.  
Sean has starred in 3 times as many James Bond movies as Timothy. Roger has starred in 5 more movies as Timothy. Combined, they have been in 15 James Bond movies.  
How many James Bond movies has each of the actors starred in?
  
3. Simplify the following:
  - (a) (1 pt.)  $(4^8)(4^5)$
  
  - (b) (2 pts.)  $2x^3y(4y^4)(-x^2)$