

Math 70 Quiz #8
November 17, 2009

Name: _____

Show all work on a separate sheet. Put a box around your final answer. No calculators are permitted.
Simplify your answers as much as possible.

1. Use **equations** to solve the following word problems. Give a **complete sentence** for your answer.

- (a) (4 pts.) A train going from Seattle to Los Angeles takes 1 day and 6 hours. The distance is approximately 960 miles. On average, how fast does the train travel on this route?
- (b) (5 pts.) Several actors have played James Bond, including Sean Connery, Roger Moore, and Timothy Dalton.

Sean has been in **3 times** as many James Bond movies as Timothy. Roger has been in **5 more** movies than Timothy. Combined, they have been in 15 James Bond movies.

How many James Bond movies has each of the actors starred in?

2. (1 pt.) Simplify $5^{10} \cdot 5^7$.