Math 109, Practice Quiz 1: Percents

Name: _____

Instructions. You have 15 minutes to complete the following problems, without notes. You may use a scientific calculator (but not a cell phone calculator). Write your answer as a complete sentence, including appropriate units.

1. After having lunch at Tradewinds, Cathy wants to leave a 15% tip for her server. The lunch was $11.79; how much should Cathy leave as a tip?

2. In the 40%-off rack at Talbots, I see a sweater originally priced at $89.49. Sales tax in Indiana is 7%. How much will it cost to buy the sweater?

3. According to scholar Rodney Stark, there were about 7,500 Christians in the world at the end of the first century (100 AD) and about 40,000 Christians fifty years later in 150 AD.

   (a) Based on this information, what was the absolute increase in the number of Christians from 100 AD to 150 AD?

   (b) What was the relative increase in the number of Christians from 100 AD to 150 AD?