Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_ Class\_\_\_\_\_\_

**Test Prep**

**Directions:** Answer every question.

1. A leaky faucet is losing water and is filling a 5-gallon bucket every 20 hours. At that rate, how many gallons of water will the faucet leak in 48 hours?

***Show your work.***

***Answer \_\_\_\_\_\_\_\_\_\_*** gallons

2. Jorge bought a crate of floor tiles for $95.94. The crate had 6 boxes of floor tiles. Each box contained 20 floor tiles.

Write and solve an equation to determine the cost per box, *b*. Then write and solve a second equation to determine the cost per tile, *t*, to the nearest cent.

***Show your work.***

***Answer*** $***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*** per box $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ per tile

3. Part A: Jodi’s car used 12 gallons of gas to travel 456 miles. How many miles did her car travel per gallon of gas?

***Show your work:***

***Answer\_\_\_\_\_\_\_\_\_\_\_\_\_***miles per gallon

Part B: It cost Jodi $44.88 to buy 12 gallons of gas. What was the cost per gallon of gas?

***Show your work.***

***Answer*** $ ***\_\_\_\_\_\_\_\_\_\_\_\_\_***