

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

**Math 1120**

**Decimals Worksheet**

**Spring 2011**

1. Write each of the following in words.

(a) 0.45

(b) 20.063

(c)  $-2.0002$

(d) 0.000052

2. A baseball player's batting average was reported as "three-twenty-two." A batting average is essentially determined when you divide the number of times that the player hits the ball by the number of times at bat. Explain why the reported batting average is not mathematically correct.

3. Explain whether 1 day can be expressed as a terminating decimal part of a 365-day year.

4. In many non-English speaking countries, a comma is used instead of a period to denote a decimal mark. (E.g., instead of 90.23 we could write 90,23.) Why would using a comma for a decimal mark be a bad idea if you are used to the American/English number writing system?

5. Write the results of each of the following in scientific notation.

(a)  $(8 \cdot 10^{12})(6 \cdot 10^{15})$

(b)  $(16 \cdot 10^{12}) \div (4 \cdot 10^5)$

(c)  $(5 \cdot 10^8)(6 \cdot 10^9) \div (15 \cdot 10^{15})$