Name: _____ Date: _____

BLM 10–4

Section 10.1 Extra Practice

1. For each of the following decimal numbers, write the part that repeats. Then rewrite the decimal number using bar notation.

Example:

0.123123123… 123 $0.\overline{123}$

a) 0.15151515… _____ _____

b) 0.621621621… _____ _____

c) 0.007007007… _____ _____

d) 0.842842842… _____ _____

2. For each of the following questions, rewrite the repeating decimal numbers with four more decimal places. Then rewrite each decimal number using bar notation.

Example: 0.818181… 0.8181818181 $0.\overline{81}$

a) 0.135013501350… _____ _____

b) 0.0225225225… _____ _____

c) 0.7662337662337… _____ _____

d) 0.28571428571428… _____ _____

For #3 and #4, use the following pattern.

$\frac{1}{99}$ = 0.010101…, $\frac{2}{99}$ = 0.020202…, $\frac{3}{99}$ = 0.030303…

3. Rewrite the following fractions as decimal numbers, using bar notation.

a) $\frac{1}{99}$ _____ **b)** $\frac{2}{99}$ _____ **c)** $\frac{3}{99}$ _____

4. a) What was done to the decimal form of $\frac{1}{99}$ to get to $\frac{2}{99}$?

_____

b) What was done to the decimal form of $\frac{2}{99}$ to get to $\frac{3}{99}$?

_____

c) Predict the decimal form for the following fractions.

$\frac{4}{99}$ _____ $\frac{21}{99}$ _____ Check your answers with a calculator.