STUDY GUIDE: Decimal Operations, Place Value Patterns, Decimal Fractions

Module 1: End of Module

5.NBT.1, 5.NBT.2, 5.NBT.3, 5.NBT.4, 5.NBT.7

Name: _____ #____

Date: _____

1. Compare using <, >, or =. *5.NBT.3*

a. 2 tenths + 11 hundredths (>) 0.13

0.2 + 0.11
0.31

b. 13 tenths + 8 tenths + 32 hundredths (=) 2.42

1.3 + 0.8 + 0.32
2.42

1.3
0.8
.32
2.42

c. 342 hundredths + 7 tenths (>) 3 + 49 hundredths

3.47 + 0.7
4.17

3.0 + 0.49
3.49

d. $2 + 31 \times \frac{1}{10} + 14 \times \frac{1}{100}$ (>) 2.324

2 + 3.1 + 0.14
5.24

e. $14 + 72 \times \frac{1}{10} + 4 \times \frac{1}{1000}$ (<) 21.24

14 + 7.2 + 0.004
21.204

f. $0.3 \times 10^2 + 0.007 \times 10^3$ (<) $0.3 \times 10 + 0.7 \times 10^2$

30 + 7
37

3 + 70
73

2. a. Use the area model below to explain the product of 5.8 and 9. *5.NBT.7*

	5 ones	8 tenths
9	45 ones	72 tenths

45 ones + 7 ones + 2 tenths

1
45
+ 7.2
52.2

b. Write the product in each of the following forms: *5.NBT.3*

expanded: $5 \times 10 + 2 \times 1 + 2 \times 0.1 \left(\frac{1}{10}\right)$

word: Fifty-two and two tenths

unit: 522 tenths

3. What is the value of the digit 2 when 8.82 is multiplied by 10^2? *5.NBT.2*

The digit 2 is worth 2 ones.

6.08
6.075
6.07

6.075

4. What is 6.075 rounded to the hundredths place? *5.NBT.4*

6.08