

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

$$\begin{array}{r} 0.2 + 0.11 \\ 0.31 \end{array}$$

$>$ 0.13

b. 13 tenths + 8 tenths + 32 hundredths

$$\begin{array}{r} 1.3 + 0.8 + 0.32 \\ 2.42 \end{array}$$

$=$ 2.42

$$\begin{array}{r} 1.3 \\ 0.8 \\ .32 \\ \hline 2.42 \end{array}$$

c. 342 hundredths + 7 tenths

$$\begin{array}{r} 3.47 + 0.7 \\ 4.17 \end{array}$$

$>$ 3 + 49 hundredths

$$\begin{array}{r} 3.0 + 0.49 \\ 3.49 \end{array}$$

d. $2 + 31 \times \frac{1}{10} + 14 \times \frac{1}{100}$

$$\begin{array}{r} 2 + 3.1 + 0.14 \\ 5.24 \end{array}$$

$>$ 2.324

e. $14 + 72 \times \frac{1}{10} + 4 \times \frac{1}{1000}$

$$\begin{array}{r} 14 + 7.2 + 0.004 \\ 21.204 \end{array}$$

$<$ 21.24

f. $0.3 \times 10^2 + 0.007 \times 10^3$

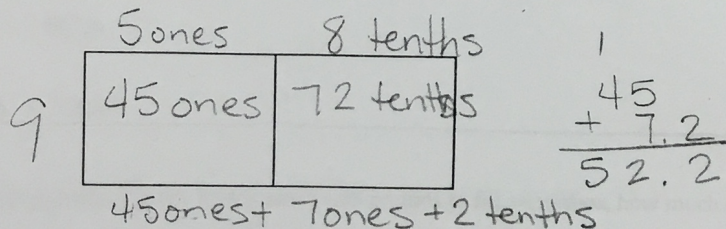
$$\begin{array}{r} 30 + 7 \\ 37 \end{array}$$

$<$ $0.3 \times 10 + 0.7 \times 10^2$

$$\begin{array}{r} 3 + 70 \\ 73 \end{array}$$

2. a. Use the area model below to explain the product of 5.8 and 9.

5.NBT.7



b. Write the product in each of the following forms:

5.NBT.3

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

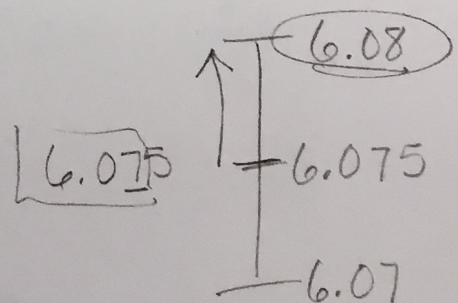
word: Fifty-two and two tenths

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.



4. What is 6.075 rounded to the hundredths place?

5.NBT.4

6.08