

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

Name: _____ # _____

Date: _____

Module 1: End of Module

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

1. Compare using $<$, $>$, or $=$.

5.NBT.3

a. 2 tenths + 11 hundredths 0.13

b. 13 tenths + 8 tenths + 32 hundredths 2.42

c. 342 hundredths + 7 tenths 3 + 49 hundredths

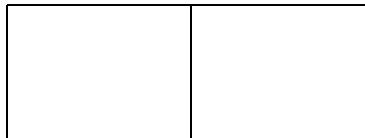
d. $2 + 31 \times \frac{1}{10} + 14 \times \frac{1}{100}$ 2.324

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

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

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: _____

word: _____

unit: _____

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

5.NBT.2

4. What is 6.075 rounded to the hundredths place?

5.NBT.4

5. Select all the numbers with values less than twelve and fifteen hundredths.

5.NBT.3

- A. eleven and thirteen hundredths
- B. fifteen and one hundred eight thousandths
- C. nine and twenty-seven hundredths
- D. 12.105
- E. 12.015

6. Michael runs a total of 50.4 km in 6 days. If he ran the same amount each day, how far did he run each day?

5.NBT.7

7. Sarah walks 0.75 miles from her house to the store. Then she walks from the store to the park to meet a friend. If she walks a total of 2.15 miles, how far is the park from the library?

5.NBT.7

8. Find the sum of each of the following:

5.NBT.7

- A. $3.7 + 8.6$
- B. $9.9 + 2.2$
- C. $7.14 + 10.7$
- D. $6.7 + 10.26$
- E. $16.4 + 11.92$

9. Jamie has 20.15 pounds of sand. If she uses 14.95 pounds to fill a sandbox, how much does she have left?

5.NBT.4

10. Ella has 5.25 cups of sugar and it is just enough to make 3 dozen cupcakes. If she uses the same amount in each dozen, how many cups of sugar are in one dozen cupcakes?

5.NBT.4

11. Find the value of each expression:

5.NBT.2

- A. 3.9×10^2
- B. 5.2×10^4
- C. 6.3×10^5
- D. 7.9×10^7

12. Write the following in standard form: $3 \times 10 + 5 \times 1 + 1 \times \frac{1}{10} + 9 \times \frac{1}{1,000}$?
5.NBT.3

13. Which number can be used to make the comparison true?
5.NBT.3

$$6.26 > \underline{\hspace{2cm}}$$

- A. 6.25
- B. 6.30
- C. 6.44
- D. 6.46

14. Brian went to the store with exactly \$19.07 and spent \$5.88. How much money did he have left after he went to the store?
5.NBT.7

15. Find the value of each of the following expressions and write it in the space provided. Circle the letter of the expression that has the most number of zeros in standard form.
5.NBT.2

- A. 6.249×10^6 _____
- B. 63.6×10^2 _____
- C. 420.1×10^2 _____
- D. 9.04×10^5 _____

16. Use the chart with total distances Jane ran last week to answer the following questions.
5.NBT.7

Day	Distance (km)
Monday	3.7
Wednesday	7.25
Friday	3.2
Saturday	9.15

- a. What was the total distance she ran by the end of Wednesday?

- b. If her friend ran a total of 23.15 km in the same week, who ran farther? How much farther?

17. Mrs. Brocato buys 7 notebooks for \$7.98. If all the notebooks are the same price, what is the cost of each notebook?
5.NBT.7

18. Write forty-five and one hundred seventeen thousandths in standard form.

5.NBT.3

19. Which expression can be used to find the sum of 3.9 and 23.2?

5.NBT.7

- A. $3 + 0.9 + 23 + 0.2$
- B. $3 + 0.09 + 23 + 0.2$
- C. $3 + 0.9 + 23 + 0.02$
- D. $3 + 9 + 23 + 0.2$

20. Complete each of the following with $>$, $<$, or $=$.

5.NBT.3

- A. 1.902 ____ 1.92
- B. 4.9 ____ 4.900
- C. 25.04 ____ 20.54
- D. 8.170 ____ 8.107
- E. 42.03 ____ 4.203

21. Which expression represents 3×7.9 ?

5.NBT.7

- A. $7 \times 3 + 7 \times 0.9$
- B. $3 \times 7 + 3 \times 0.9$
- C. $7 \times 3 + 9 \times 3$
- D. $3 \times 0.7 + 3 \times 0.9$

22. Use an area model to show the product of 4 and 8.093.

5.NBT.7

23. Find the value of each expression below.

5.NBT.7

- A. $24.8 + 3.98$
- B. $5.13 - 3.85$
- C. $300 - 2.15$
- D. $0.83 + 3.75$