

Name: _____

Test 4 Study Guide: Place Value

MCC5.NBT1 Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.

5.NBT.3- Read, write, and compare decimals to thousandths.

a. Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., $347.392 = 3 \times 100 + 4 \times 10 + 7 \times 1 + 3 \times (1/10) + 9 \times (1/100) + 2 \times (1/1000)$.

b. Compare two decimals to thousandths based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons.

<p>1. Compare the numbers below using $<$, $=$, or $>$.</p> <p style="text-align: center;">2.300 _____ 2.3</p>	<p>2. Compare the numbers below using $<$, $=$, or $>$.</p> <p style="text-align: center;">4.099 _____ 4.1</p>
<p>3. In the two hundred meter dash, the top 3 sprinters finished in the following times:</p> <p style="text-align: center;">20.03 seconds 20.12 seconds 20.099 seconds</p> <p>Which time was the fastest?</p>	<p>4. Digory completed the obstacle course in 25.063 seconds. Polly completed the course in 25.06 seconds. Nemo's time was faster than Digory's, but slower than Polly's time. Write a time that could be the Grinch's.</p>
<p>5. Which number sentence makes this statement true?</p> <p style="text-align: center;">_____ $<$ 35.61</p> <p>A. 35.81 B. 35.611 C. 35.531 D. 35.7</p>	<p>6. Barney has two boxes of strawberries. The first box weighs 10.26 pounds. The second box weighs 10.34 pounds. If he moved a few strawberries from the second box to the first box to make their weights equal, what would be the new weight of each box?</p>
<p>7. Write a 7 digit number that has a:</p> <ul style="list-style-type: none"> • 4 in the ones place • 5 in the thousandths place • 3 in the hundredths place • 7 in all other places <p>____ , _____ . _____</p>	<p>8. Which is the only number that has odd digits in the hundreds AND tenths place?</p> <p style="text-align: right;">A. 341.632 B. 356.124 C. 889.326 D. 354.255</p>
<p>9. Which is the expanded form with multiplication for 6,034.308?</p> <p>A. $(6 \times 1,000) + (3 \times 10) + (4 \times 1) + (3 \times \frac{1}{10}) + (8 \times \frac{1}{1000})$ B. $(6 \times 1,000) + (3 \times 10) + (4 \times 1) + (3 \times \frac{1}{100}) + (8 \times \frac{1}{1000})$ C. $(6 \times 100) + (3 \times 100) + (40 + 1) + (3 \times \frac{1}{10}) + (8 \times \frac{1}{1000})$ D. $(6 \times 100) + (3 \times 100) + (4 \times 1) + (3 \times \frac{1}{10}) + (8 \times \frac{1}{1000})$</p>	

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10. Write 50,932.4 in expanded form.

11. How could 30,510 be written in expanded form?

- A. $(3 \times 10^3) + (5 \times 10^2) + (1 \times 10^1)$
- B. $(3 \times 10^4) + (5 \times 10^2) + (1 \times 10^1)$
- C. $(3 \times 10^4) + (5 \times 10^3) + (1 \times 10^2)$
- D. $(3 \times 10^3) + (5 \times 10^2) + (1 \times 10^1)$

**12. Write in standard form:
five hundred thirty six thousand and nine hundredths**

13. Which digit has 10 times the value of the underlined digit below?

9,938,030

14. Which describes the value of the place to the right of the underlined digit?

4,332,556.03

- A. 1/10 its value
- B. 10 x its value
- C. 1/10 x 1/10 its value
- D. 10 x 10 its value

15. Which has a value that is 1/10 of 0.3?

- A. 0.03
- B. 0.3
- C. 3
- D. 30

16. Underline the digit in the tenths place.

9,355,488.832

Which place has 10 times the value of the underlined digit?

17. Underline the digit in the tens place.

5,433.331

Which place has 1/10 the value of the underlined digit?

18. What number has 10 times the value of 60?