

5th Grade Unit 2---Decimals(Form A)

Name: _____

Date: _____

NBT.1: recognize that in a multi-digit number, a number 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

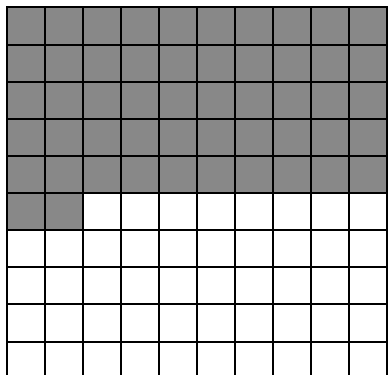
NBT.3a: read, write, order and compare place value of decimals to thousandths using base ten numerals, number names, and expanded form

NBT.3b: compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons

NBT.4: round decimals to any place using tools such as a number line and/or charts

<p>1. Write the number that is 10 times as much as 784:</p>	<p>2. Solve:</p> <p style="text-align: center;">7 hundreds= _____ tens</p>
<p>3. In the number 576.3127, which digit is in the thousandths place?</p>	<p>4. Solve:</p> <p style="text-align: center;">6 tenths = _____ thousandths</p>
<p>5. Write 347.392 in expanded form.</p>	<p>6. What is the standard form of $(3 \times 10,000) + (6 \times 1,000) + (7 \times 100) + (4 \times 10) + (8 \times 1) + (2 \times 0.1) + (5 \times 0.01)$?</p>
<p>7. Using the format below, write the expanded form of 245.372 by filling in the blanks below.</p> <p style="margin-left: 20px;">$245.392 = (2 \times \underline{\quad}) + (4 \times \underline{\quad}) + (5 \times \underline{\quad}) +$</p> <p style="margin-left: 20px;">$(3 \times \underline{\quad}) + (9 \times \underline{\quad}) + (2 \times \underline{\quad})$</p>	<p>8. Solve using >, <, or =.</p> <p style="text-align: center;">4.036 _____ 4.6</p>
<p>9. Write the standard form for:</p> <p style="margin-left: 20px;">Three thousand, four hundred eighty-two and sixty-four thousandths</p>	<p>10. Read the clues. Then write the standard form of the number.</p> <ul style="list-style-type: none"> • I have a 7 in the hundreds place. • The tenths place is one less than 5. • The ones place is 3 less than 8. • There is a 2 in the hundredths place. • The tens place has a zero. <p style="text-align: center; margin-left: 20px;">_____</p>
<p>11. Round the number 364.358 to the nearest hundredth.</p>	<p>12. Round the number 4,123.1249 to the nearest thousandth.</p>

13. If the model below represents one whole, what is the decimal amount of the shaded region?



14. Ryan ran a race in 45.8 seconds. Thomas ran the race in 45.08 seconds. Who came in first? How do you know?

15. Look at the number 3,333. How is the value of the 3 changing as it moves one place to the **left** (for example 3 ones to 3 tens, 3 tens to 3 hundreds, and so on.)? Choose the correct answer.

- a. The value in each place is divided by 10.
- b. The value in each place is multiplied by 10.
- c. The value in each place is added to 10.
- d. The value in each place is subtracted by 10.

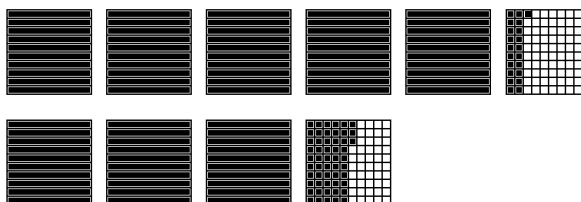
16. Look at the number 3,333. How is the value of the 3 changing as it moves one place to the **right** (for example 3 thousands to 3 hundreds, 3 hundreds to 3 tens, and so on.)? Choose the correct answer.

- e. The value in each place is divided by 10.
- f. The value in each place is multiplied by 10.
- g. The value in each place is added to 10.
- h. The value in each place is subtracted by 10.

17. On the number line below, illustrate why 14.23 rounded to the nearest tenth rounds to 14.2 instead of 14.3. You must include the baseline numbers of 14.2 and 14.3 on the number line and what number is halfway between 14.2 and 14.3. Place an X on a dot showing the approximate location of 14.23.

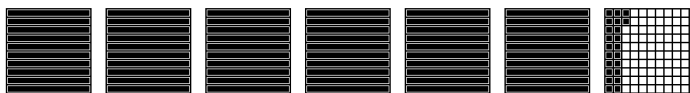


18. Make a smart estimate for $5.21 + 3.43$ _____. Use the model to find the exact answer.



$$5.21 + 3.43 = \underline{\quad}$$

19. Paul thinks that $6.24 - 2$ will be 6.22. Use the model to show if Paul is write or wrong. Explain your answer.



20. Solve

$$\begin{array}{r} 13.6 \\ - 1.14 \\ \hline \end{array}$$

21.

Lisa has \$35.00. She plans to buy a purse for \$21.29 and a belt. What is the most she can spend on the belt? Show your work.

22.

Tommy was buying his school supplies. He bought pencils for \$2.99, paper for \$3.38, and a highlighter for \$ 1.29. How much did he spend on his supplies?

23.

A punch recipe requires 3.5 cups of orange juice, .25 cups of lemon juice, and 6 cups of ginger ale. How many cups of liquid are in the punch?

24. Solve $(58.8 + 3) + 2.4$

25. Solve $26 - (22.6 + 2.4)$