

Name: _____

Due Date: _____

TOPIC 1 STUDY GUIDE

****make sure you know how to do the following****

1. Write a number up to the billions place in standard, word, and expanded forms.
2. Write a decimal up to the thousandths place in standard, word, and expanded forms.
3. Compare decimals up to the thousandths place.
4. Order decimals up to the thousandths place from greatest to least or least to greatest.
5. Identify a picture model of a decimal.
6. Fill in decimal patterns on a grid (1-6).

Review Questions:

1. About 885,000,000 people speak Mandarin Chinese. How is 885,000,000 written in words?

2. A National Park in Alaska has eighty thousand, nine-hundred twenty-three and eighty-six hundredths acres of nonfederal land. Write the amount of acres in standard form.

3. The circumference of a bowling ball is less than 27.002 inches. Which of the following numbers is less than 27.002?
 - a. 27.02
 - b. 27.2
 - c. 27.004
 - d. 27.001

Write each of these numbers in word form.

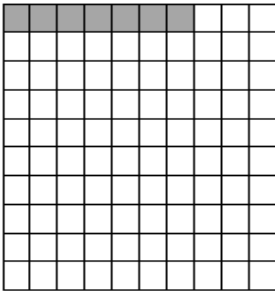
4. In the year 2000, the population of New York City was about 14,700,000. Write the two other ways to display this number (expanded and word form).

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5. A certain machine part must be between 2.73 and 3.55 inches. What are two numbers that are greater than 2.73 and less than 3.55 inches?

6. What part of the figure below is shaded?



7. Lead melts at 327.46 degrees Celsius. What is that number in expanded form?

8. About $\frac{2}{5}$ of US households own at least one dog. What is $\frac{2}{5}$ written as a decimal?

9. Kendra has \$70. Alonzo has one tenth ($\frac{1}{10}$) as much money as Kendra. Mariko has 10 times as much money as Kendra. How much money does Alonzo have? How much money does Markio have?

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10. In basketball, Dimitri is averaging 12.375 rebounds per game in a tournament. What is 12.375 in expanded form? In word form?

11. Thomas says that $35/1000$ can be written as 0.35. Is this correct? If not, justify your reasoning and tell the correct answer.

12. Determine the pattern, then fill in the decimal grid.

