Name Date

Practice A

6.2

Tell which number is greater.

1.  2.  3. 0.21, 21% 4. 

5. 0.482, 49% 6. 16%, 0.108 7.  8. 

9. 1.2, 11% 10.  11.  12. 

13. Describe and correct   
the error in comparing   
0.7% and .





0.7% is greater than 0.68%,   
so 0.7% is the greater number.

Use a number line to order the numbers from least to greatest.

14.  15. 

16.  17. 

18.  19. 

20. You use 8 fluid ounces of fruit juice in a recipe to make 64 fluid ounces of fruit punch. A fruit punch you can buy at the store has 10% real fruit juice. Which has a higher percent of fruit juice?

21. While shooting baskets at a basketball hoop, you make 36 out of 80 shots. Your friend makes 43.75% of the shots. Who made a higher percent?

22. To earn a bonus in a video game, you must find at least 60% of the   
hidden gems. You find 25 out of 40 gems. Do you get the bonus? Explain.

23. The table shows the portion of students at a middle school that are in each grade. Order the grades from the least to the greatest number of students.

|  |  |  |  |
| --- | --- | --- | --- |
| Grade | 6 | 7 | 8 |
| Portion of students |  | 0.3125 |  |

Name Date

Practice B

6.2

Tell which number is greater.

1.  2.  3. 3.2, 32% 4. 99.9%, 1

Use a number line to order the numbers from least to greatest.

5.  6. 

Tell which letter shows the graph of the number.

 7. 0.884 8.  9.  10. 0.89

11. Describe a process that you can use to find a decimal whose value is between 31% and 32%.

12. Is 6 centimeters greater than 5% of a meter? Explain.

13. Does 6% of a pound weigh more than an ounce? Explain.

14. Order the periods of time from least to greatest.

1% of an hour  of a minute 0.0004 of a day

15. The table shows the portions of the U.S. population that lived in Florida   
in certain years.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Year | 1860 | 1910 | 1960 | 2010 |
| Portion of U.S. Population  in Florida | 0.45% | 0.0082 |  |  |

a. Order the portions from least to greatest.

b. Since 1860, how has the population of Florida increased compared to the population of the United States? Why do you think this happened?

c. Do you think this will always happen? Explain your reasoning.

16. Arsenic is toxic to humans. The greatest amount of arsenic that is allowed in   
drinking water is 10 parts per billion. A test shows that a source of drinking   
water contains 0.000002% arsenic. Is this an allowable amount? Explain.