

## Chapter 2 Practice Test #2

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- Write the digit in each place of 3,376,554,320,295.5996.
  - ten billions \_\_\_\_\_
  - hundredths \_\_\_\_\_
  - hundred millions \_\_\_\_\_
  - thousandths \_\_\_\_\_
  - trillions \_\_\_\_\_
  - tenths \_\_\_\_\_

Write each number in standard notation.

- 4.3 million
- 34.1 trillion

Write each number in number-and-word notation.

- 8,600,000,000
- 416,800,000,000,000

Write the exponent in each of the following.

6.  $0.01 = 10^{\square}$

7. 1 trillion =  $10^{\square}$

8.  $10 * 10 * 10 * 10 * 10 = 10^{\square}$

9.  $\frac{1}{10} = 10^{\square}$

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10. The distance between a comet and the Earth is about  $2.6 * 10^9$  miles. Write  $2.6 * 10^9$  in standard notation.
11. Assume that every year, Saturn travels about 900,000,000 miles in its orbit around the Sun. Write 900,000,000 in scientific notation.

Complete.

12.  $17,578 \times 0.01 =$  \_\_\_\_\_

13.  $0.251 * 1,000 =$  \_\_\_\_\_

14. The length of a certain kind of bacteria is  $3.3 * 10^{-8}$  cm. Write  $3.3 * 10^{-8}$  in standard notation.

15. Complete.  
 $76 = 0.00076 \times$  \_\_\_\_\_

16. The distance between a comet and the Earth is about  $1.8 * 10^9$  miles. Write  $1.8 * 10^9$  in standard notation.

17. Complete.  
 $0.2 = 0.000002 \times$  \_\_\_\_\_

18. Add or subtract.  
 $0.201 + 5.28 =$  \_\_\_\_\_

19. Add or subtract. \_\_\_\_\_  $= 21.7 + 5.03$

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Add or subtract.

20. \_\_\_\_\_ =  $8.87 - 0.9$

21.  $7.9 - 3.81 =$  \_\_\_\_\_

22. Multiply.

$56.1 * 5.6 =$  \_\_\_\_\_

23. Divide.

$707/27 \rightarrow$  \_\_\_\_\_

24. Write 618,262 in expanded notation.

25. Write 778.993 in expanded notation.

26. Use a calculator to help you convert  $9^3$  from exponential notation to standard notation.

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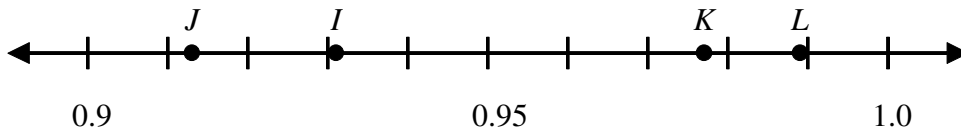
27.

| Metric Measurements                    |
|--|
| <b>Length</b>                          |
| 1 meter (m)=100 centimeters (cm)       |
| 1 centimeter (cm)=100 millimeters (mm) |
| <b>Capacity</b>                        |
| 1 liter (L)=1,000 milliliters (mL)     |
| 1 kiloliter (kL)=1,000 liters (L)      |
| <b>Mass</b>                            |
| 1 kilogram (kg)=1,000 grams (g)        |
| 1 gram (g)=1,000 milligrams (mg)       |

Use the table of metric measurements above to complete the following:

- 133 cm = \_\_\_\_\_ m
- 4.1 L = \_\_\_\_\_ mL
- 26,286 g = \_\_\_\_\_ kg
- 769 mL = \_\_\_\_\_ L

28.



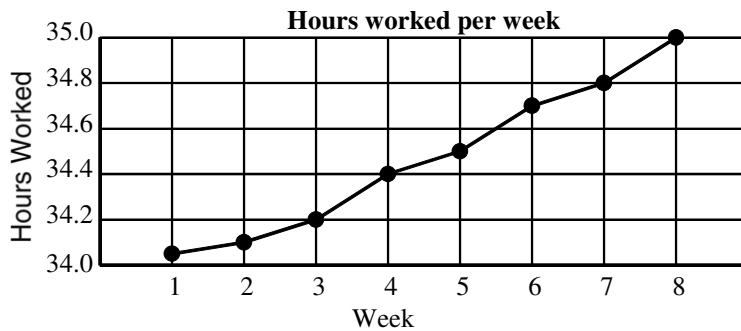
Name the point on the number line above that represents each of the following numbers.

- 0.913 \_\_\_\_\_
  - 0.977 \_\_\_\_\_
  - 0.931 \_\_\_\_\_
  - Use the number line above to help you round 0.989 to the nearest hundredth. \_\_\_\_\_
29. a. The list shows the number of points scored by a basketball team in 15 games.  
65, 97, 74, 79, 92, 63, 96, 61, 98, 66, 87, 79, 78, 83, 65  
Create a stem-and-leaf plot of the data.
- Use your stem-and-leaf plot to find the median and mean of the data set.

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30. Amy works for the county school board. She wanted to compare standardized test scores for students who took a special preparatory course and those who didn't. She took a random sample of the students who took the course. Which measure of central tendency should Amy use: the mean, or the median? Why?
31. Gabriella is trying to convince her boss that she deserves a salary increase. She claims that over the past 8 weeks, her number of working hours has greatly increased. She uses the broken-line graph at the right to support her claim.



- a. According to the graph, how many hours did Gabriella work during Week 4? \_\_\_\_\_
- b. Is Gabriella's claim misleading? Explain.

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- a. 7
- b. 9
- c. 5
- d. 9
- e. 3

[1] f. 5 \_\_\_\_\_

[2] 4,300,000 \_\_\_\_\_

[3] 34,100,000,000,000 \_\_\_\_\_

[4] 8.6 billion \_\_\_\_\_

[5] 416.8 trillion \_\_\_\_\_

[6] -2 \_\_\_\_\_

[7] 12 \_\_\_\_\_

[8] 5 \_\_\_\_\_

[9] -1 \_\_\_\_\_

[10] 2,600,000,000 \_\_\_\_\_

[11]  $9 * 10^8$  \_\_\_\_\_

[12] 175.78 \_\_\_\_\_

[13] 251 \_\_\_\_\_

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[14] 0.000000033

[15]  $10^5$

[16] 1,800,000,000

[17]  $10^5$

[18] 5.481

[19] 26.73

[20] 7.97

[21] 4.09

[22] 314.16

[23] 26 R5

[24]  $600,000 + 10,000 + 8,000 + 200 + 60 + 2$

[25]  $700 + 70 + 8 + 0.9 + 0.09 + 0.003$

[26] 729

[27] a. 1.33  
b. 4,100  
c. 26.286  
d. 0.769

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- a. *J*
  - b. *K*
  - c. *I*
  - [28] d. 0.99
- 

### a. Total Points Scored

| Stem | Leaf      |
|------|-----------|
| 6    | 1 3 5 5 6 |
| 7    | 4 8 9 9   |
| 8    | 3 7       |
| 9    | 2 6 7 8   |

- [29] b. 79; 78.9
- 

- [30] the mean; Explanations will vary.
- 

- a. 34.4 hours
  - b. Sample answer: Gabriella's claim is misleading because her working hours have only
  - [31] gone up by one hour in the past 8 weeks.
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