

# Decimals

Name \_\_\_\_\_

## Understanding Decimals Through Thousandths

### SKILLS

Write each number in words.

1. 6.031 \_\_\_\_\_
2. 21.125 \_\_\_\_\_
3. 5.006 \_\_\_\_\_
4. 12.234 \_\_\_\_\_
5. 207.207 \_\_\_\_\_
6. 4.563 \_\_\_\_\_
7. 0.068 \_\_\_\_\_

Write each number in standard form.

8. \_\_\_\_\_ Six and two hundred twelve thousandths
9. \_\_\_\_\_ Twenty-five thousandths
10. \_\_\_\_\_ Two and four hundred twenty-one thousandths
11. \_\_\_\_\_ Ten and forty-six thousandths
12. \_\_\_\_\_ Thirty and seventeen thousandths
13. \_\_\_\_\_ Three hundred twenty-five and nine thousandths
14. \_\_\_\_\_ Eleven and six hundred three thousandths
15. In the number 4,263.579, what digit is in the . . .  
tens place? \_\_\_\_\_ hundredths place? \_\_\_\_\_  
thousandths place? \_\_\_\_\_ tenths place? \_\_\_\_\_
16. In the number five hundred sixty-three and two hundred seven thousandths, what digit is in the . . .  
tenths place? \_\_\_\_\_ ones place? \_\_\_\_\_  
hundreds place? \_\_\_\_\_ thousandths place? \_\_\_\_\_
17. In the number 371.065, what digit is in the . . .  
tenths place? \_\_\_\_\_ hundredths place? \_\_\_\_\_  
hundreds place? \_\_\_\_\_ thousandths place? \_\_\_\_\_
18. In the number thirty-six and four hundred twelve thousandths, what digit is in the . . .  
tenths place? \_\_\_\_\_ thousandths place? \_\_\_\_\_  
tens place? \_\_\_\_\_ hundredths place? \_\_\_\_\_

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### CRITICAL THINKING AND PROBLEM SOLVING

Write each measurement in standard form.

19. A crocodile is about nineteen and four hundred seventeen thousandths feet in length.  
A crocodile is about \_\_\_\_\_ feet long.
20. A white rhinoceros is about eleven and one hundred sixty-seven thousandths feet long.  
A white rhinoceros is about \_\_\_\_\_ feet long.
21. The average wind speed in Dodge City, Kansas is about twenty-two and five hundred twenty-six thousandths kilometers per hour.  
The average wind speed in Dodge City is about \_\_\_\_\_ kilometers per hour.
22. Yuma, Arizona is the driest city in the U.S. It receives about two and six hundred thirty-eight thousandths inches of rain each year.  
Yuma receives about \_\_\_\_\_ inches of rain each year.
23. The smallest kind of bat is about only one and one hundred forty-two thousandths inches long.  
The smallest bat is about \_\_\_\_\_ inches long.
24. A chimpanzee is about thirty-six and two hundred twenty thousandths inches long.  
A chimpanzee is about \_\_\_\_\_ inches long.
25. Use the digits to make at least 5 different numbers. Make the numbers as large as possible. **Each number must have at least two decimal places.** After you make five numbers, circle the largest one.

5      0      2      8      6

\_\_\_\_\_  
\_\_\_\_\_

26. Use the digits to make at least 5 different numbers. Make the numbers as large as possible. **Each number must have at least three decimal places.** After you make five numbers, circle the largest one.

1      9      6      8      7      3

\_\_\_\_\_  
\_\_\_\_\_

27. Is the circled number the largest possible number each time? YES NO  
Why do you think that?

\_\_\_\_\_

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## Comparing and Ordering Decimals Through Thousandths

### SKILLS

For each pair of decimals, write the digits in the place value chart then use  $<$  or  $>$  to compare them.

1. Compare 24.732 and 24.735.

Tens	Ones	Tenths	Hundredths	Thousandths
		.		
		.		

24.732 \_\_\_\_\_ 24.735

2. Compare 7.649 and 7.648.

Tens	Ones	Tenths	Hundredths	Thousandths
		.		
		.		

7.649 \_\_\_\_\_ 7.648

3. Compare 16.034 and 16.037.

Tens	Ones	Tenths	Hundredths	Thousandths
		.		
		.		

16.034 \_\_\_\_\_ 16.037

4. Compare 9.145 and 9.153.

Tens	Ones	Tenths	Hundredths	Thousandths
		.		
		.		

9.145 \_\_\_\_\_ 9.153

Compare each pair of decimals using  $>$ ,  $<$ , or  $=$ .

5. 6.736 \_\_\_\_\_ 6.726      6. 5.036 \_\_\_\_\_ 5.134      7. 12.139 \_\_\_\_\_ 12.136

8. 7.107 \_\_\_\_\_ 7.207      9. 19.436 \_\_\_\_\_ 18.439      10. 8.96 \_\_\_\_\_ 8.960

Order each set of numbers from least to greatest. Use the place value charts to help you.

11. 3.902, 3.912, 3.801, 3.845

Tens	Ones	Tenths	Hundredths	Thousandths
		.		
		.		
		.		
		.		

\_\_\_\_\_ < \_\_\_\_\_ < \_\_\_\_\_ < \_\_\_\_\_

12. 0.730, 0.073, 0.370, 0.307

Tens	Ones	Tenths	Hundredths	Thousandths
		.		
		.		
		.		
		.		

\_\_\_\_\_ < \_\_\_\_\_ < \_\_\_\_\_ < \_\_\_\_\_

13. Which number is less than 4.562?

- a. 4.565      b. 4.56  
c. 4.653      d. 4.565

14. Which number is greater than 6.042?

- a. 6.04      b. 6.021  
c. 6.141      d. 6.032

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## Comparing and Ordering Decimals Through Thousandths

### CRITICAL THINKING AND PROBLEM SOLVING

Use the table to answer questions 15–22.

Speed of Animals	
Animal	Speed (kilometers per hour)
Cheetah	112.63
Zebra	64.36
Greyhound	63.314
Squirrel	19.308
Rabbit (domestic)	56.315
Giraffe	51.488
Lion	80.45
Coyote	69.187
Pig (domestic)	17.699
Reindeer	51.488

Source: Infoplease.com Kid's Almanac

15. Which animal is faster?  
zebra or greyhound

16. Which animal is faster?  
squirrel or pig

17. Which animal is the fastest?  
\_\_\_\_\_

18. Which animal is faster?  
coyote or greyhound

19. Which two animals have the  
same speed?  
\_\_\_\_\_ and \_\_\_\_\_

20. Which animal is faster?  
coyote or lion

21. Which animal is faster?  
rabbit or reindeer

22. Name the three fastest animals in order beginning with the fastest.  
\_\_\_\_\_

23. Write a number with three decimal  
places greater than 0.79 and less  
than 0.8.  
\_\_\_\_\_

24. Write a number with three decimal  
places greater than 4.06 and less  
than 4.1.  
\_\_\_\_\_

25. Write a number with three decimal  
places greater than 0.05 and less  
than 0.06.  
\_\_\_\_\_

26. Write a number with three decimal  
places greater than 4.74 and less  
than 4.75.  
\_\_\_\_\_

27. Write a number with three decimal  
places greater than 6.30 and less  
than 6.31.  
\_\_\_\_\_

28. Write a number with three decimal  
places greater than 0.65 and less  
than 0.662.  
\_\_\_\_\_