### **Comparing and Ordering Decimals**

List the numbers in order from least to greatest:

6.943, 5.229, 6.825, 6.852, 6.779

Step 1: Write the numbers, lining up places. Begin at the left to find the greatest or least number.

6.943 5.229 6.825 6.852 6.779

5.229 is the least.

Step 2: Write the remaining numbers, lining up places. Find the greatest and least. Order the other numbers.

6.943 ← greatest 6.825 6.852 6.779 ← least

6.779 is the least. 6.943 is the greatest.

6.852 is greater than 6.825.

Step 3: Write the numbers from least to greatest.

5.229 6.779 6.825 6.852 6.943

Complete. Write >, <, or = for each (

**1.** 7.539 ( ) 7.344 **2.** 9.202 (

9.209

0.750 **3.** 0.75 (

Order these numbers from least to greatest.

4. 3.898 3.827 3.779

**5.** 5.234 5.199 5.002 5.243

Which had the faster speed?

6. Driver A or Driver D

7. Driver C or Driver A

**Car Racing Winners** 

Driver	Average Speed (mph)		
Driver A	145.155		
Driver B	145.827		
Driver C	147.956		
Driver D	144.809		

## **Comparing and Ordering Decimals**

Write >, <, or = for each (

- 1. 5.424 ( ) 5.343
- 2. 0.33( )0.330
- 3. 9.489 ( 9.479

- 4. 21.012 21.01
- **5.** 223.21 ( ) 223.199
- 6. 5.43 ( 5.432

Order these numbers from least to greatest.

- **7.** 8.37, 8.3, 8.219, 8.129
- 8. 0.012, 0.100, 0.001, 0.101
- 9. Name three numbers between 0.33 and 0.34.
- 10. Which runner came in first place?
- 11. Who ran faster, Amanda or Steve?
- 12. Who ran for the longest time?

### Half-Mile Run

Runner	Time (minutes)	
Amanda	8.016	
Calvin	7.049	
Liz	7.03	
Steve	8.16	

- 13. Which number is less than 28.43?
  - A 28.435
- B 28.34
- C 28.430
- D 29.43
- 14. Explain why it is not reasonable to say that 4.23 is less than 4.13.

## Problem Solving: Look for a Pattern

Mr. Nagpi works in a machine shop. In the shop, the drill bits are kept in a cabinet with drawers. The drawers are marked with the diameter of the bits as shown on the right. Some of the labels are missing. Help Mr. Nagpi complete the drawer labels.

		Drill Bits		
0.10	0.12	0.14	0.16	0.18
in.	in.	in.	in.	in.
0.20	0.22	0.24	0.26	0.28
in.	in.	in.	in.	in.
0.30 in.	0.32 in.	0.34 in.		

#### Read and Understand

What do you know?

What are you trying to find?

Some drawers are labeled with decimals.

A way to find the values of the missing labels

### Plan and Solve

Find a pattern for the decimals.

- Look for a pattern to the change in the tenth-values across a row or down a column.
- Look for a pattern to the change in the hundredthvalues across a row or down a column.
- **3.** Use the patterns to complete the table.

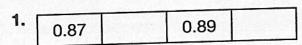
- The tenth-values are not increasing across a row. They are increasing by 1 down a column.
- The hundredth-values are increasing by 2 across a row. They are not increasing down a column.
- **3.** The missing labels in the third row are 0.36 in. and 0.38 in.

Find the pattern in the table. Then fill in the missing values in the table.

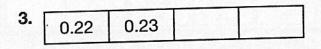
0.20	0.21	0.22	0.23	0.24
0.50	0.51	0.52	0.53	
0.80	0.81	0.82		

# Problem Solving: Look for a Pattern

Determine the pattern and then complete the grids.



0.12



0.56

5. In a list of numbers, the pattern increases by 0.001 as you move to the right. If the third number in the list is 0.064, what is the first number in the list? Explain how you know.

4.

6. If 5 school buses arrive, each carrying exactly 42 passengers, which expression would you use to show how many people in all arrived on the school buses?

$$A 42 + 5$$

$$B42 - 5$$

$$\mathbf{C}$$
 42  $\times$  5

7. Mishell arranged her coins in the following pattern: \$0.27, \$0.29, \$0.31, \$0.33. Explain what her pattern is, and then tell what the next amount of coins would be.

1. 
$$24 \div 4 =$$
\_\_\_\_

3. 
$$21 \div 3 =$$
\_\_\_\_

5. 
$$15 \div 5 =$$
\_\_\_\_

**6.** 
$$45 \div 9 =$$

7. 
$$24 \div 3 =$$

**9.** 
$$27 \div 9 =$$

11. 
$$49 \div 7 =$$

**13.** 
$$63 \div 9 =$$

**15.** 
$$36 \div 4 =$$

**18.** 
$$36 \div 6 =$$

**20.** 
$$35 \div 5 =$$

**30.** 
$$40 \div 5 =$$

Give each answer.

6. 
$$3 \times 2 =$$

8. 
$$7 \times 5 = -$$

9. 
$$4 \times 5 =$$

21. 
$$5 \times 7 =$$

**34.** 
$$4 \times 6 =$$

4 × 3 = \_\_\_\_ 35.

**38.** 
$$0 \times 2 =$$

**39.** 
$$2 \times 7 =$$

43. 
$$3 \times 6 =$$

44. 
$$7 \times 7 =$$
\_\_\_\_

**45.** 
$$5 \times 3 =$$