

Name _____

Place Value to Compare Decimals

Essential Question How can you use place value to compare decimals?

UNLOCK the Problem REAL WORLD

Hummingbirds are small, fast, light birds that feed on flowers, trees, and insects. Suppose a particular hummingbird weighs 0.16 ounces. A nickel weighs about 0.18 ounces. Does the hummingbird weigh more or less than a nickel?

- What do you need to do to solve the problem?

- Circle the numbers you need to compare.

 Use a place-value chart.

Write each of the decimals on a place-value chart. Be sure to line up each place and the decimal point. Then compare the numbers in each place.

Ones		Tenths	Hundredths
0	.	1	6
0	.	1	8

0 = 0 1 = _____ 6 < _____
 Since 6 8, 0.16 0.18, and 0.18 0.16

So, the hummingbird weighs _____ a nickel.

Math Talk Explain why you start comparing the decimals by comparing the ones place.

Try This! Use a place-value chart to compare the decimals.

Write <, >, or =.

- A. 1.32 1.34
 B. 0.67 0.6
 C. 0.99 0.99

Share and Show



1. Use the place-value chart below to compare the decimals.
Write $<$, $>$, or $=$.

Ones	Tenths	Hundredths
3	.	0
3	.	1

$3 = 3$ $0 = \underline{\quad}$ $5 \bigcirc 1$
So, $3.05 \bigcirc 3.01$.

Compare the decimals. Write $<$, $>$, $=$.

2. $7.24 \bigcirc 7.42$ 3. $8.80 \bigcirc 8.81$ 4. $0.11 \bigcirc 0.11$ 5. $4.33 \bigcirc 4.31$

On Your Own

Compare the decimals. Write $<$, $>$, $=$.

6. $0.04 \bigcirc 0.04$ 7. $1.1 \bigcirc 1.7$ 8. $0.34 \bigcirc 0.36$ 9. $4.04 \bigcirc 4.01$
10. $9.67 \bigcirc 9.63$ 11. $1.4 \bigcirc 1.42$ 12. $0.02 \bigcirc 0.2$ 13. $5.4 \bigcirc 5.40$

Use a place-value chart to order the decimals from least to greatest.

14. $0.59, 0.51, 0.52$ 15. $7.15, 7.18, 7.1$ 16. $1.3, 1.33, 1.03$

Problem Solving



17. Jill, Ally, and Maria ran the 50-yard dash. Jill ran the race in 6.87 seconds. Ally ran the race in 6.82 seconds. Maria ran the race in 6.93. Who ran the race the fastest? **Explain** how you can use a place-value chart to find the answer.
