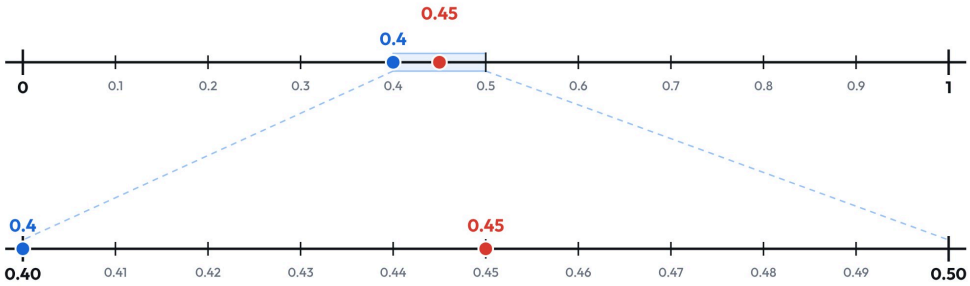
Name _____ Date _____

Comparing and Ordering Decimals

Example



We compare place by place, from the left: the ones are equal, the tenths are equal (4 and 4), and the hundredths are 0 and 5. So $0.4 < 0.45$. You can also see it by using the same number of decimal places: $0.40 < 0.45$.

1 ON YOUR OWN Write <, > or =.

$0.7 \bigcirc 0.25$ $0.4 \bigcirc 0.45$ $0.3 \bigcirc 0.30$ $1.09 \bigcirc 1.1$ $0.06 \bigcirc 0.6$

$2.5 \bigcirc 2.49$ $0.125 \bigcirc 0.13$ $3.01 \bigcirc 3.010$

2 IN PAIRS Who is right? Explain.

Luke: $0.25 > 0.7$ **because** 25 **is greater than** 7**.** **true** / **false**

Why? _____

Emma: $0.4 > 0.45$ **because tenths are bigger than hundredths.** **true** / **false**

Why? _____

Ivo: $0.8 = 0.80$**.** **true** / **false**

Why? _____

Names (pair) _____ Date _____

Remember

We compare decimals place by place, from the left. **More digits does not mean a bigger number.** Zeros at the end do not change the value: $0.3 = 0.30$.

3 ON YOUR OWN Put in order from smallest to greatest.

a) $0.5 \quad 0.45 \quad 0.405 \quad 0.54 \rightarrow$ ☐ < ☐ < ☐ < ☐

b) $1.2 \quad 1.09 \quad 1.19 \quad 1.1 \rightarrow$ ☐ < ☐ < ☐ < ☐

c) $0.06 \quad 0.6 \quad 0.066 \quad 0.061 \rightarrow$ ☐ < ☐ < ☐ < ☐

4 IN PAIRS Make numbers from the digits 0, 4 and 7 and a decimal point. Use each digit once.

the greatest number less than 1: ☐

the smallest number greater than 0: ☐

the number closest to 0.5: ☐

a number between 4 and 5: ☐

5 ON YOUR OWN Results of a 100 m race: Ana 12.4 s, Mia 12.38 s, Tea 12.5 s, Lea 12.09 s. Put the runners in order from fastest to slowest.

_____

The Decimal Zoom app · otooly.com/decimal-zoom

In **Compare** mode type two numbers: the lines zoom in until the numbers separate. **New task** gives pairs that are often got wrong.

★ ON YOUR OWN **Exit card.** Compare 0.9 and 0.89. Explain.

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