

U1:L4 Ordering Numbers

Remember place values?

1	2	3	4	5	6	7	.	6	5	4	3	2	1

Let's practice! Write the name or the number which matches the given word or number:

0.0025	
	Three million, three hundred and thirty-three thousand, three hundred and thirty-three
	Twelve and three hundred and forty-five tenths
0.000007	
	Six million and eighty-eight

TO determine the order of decimals, SIMPLY compare their PLACE VALUES.

For example:

0.0342

0.031

0.04

0.03

0.029999

TO determine the order of fractions, SIMPLY turn them into a decimal!

To turn a fraction into a decimal...

What about a mixed fraction?

Practice!

Order the following numbers from least to greatest:

$$-1.2 \quad \frac{4}{7} \quad \frac{2}{5} \quad \frac{9}{16} \quad \frac{4}{5} \quad \frac{7}{8} \quad -0.\bar{5} \quad -\frac{7}{8}$$

Place the following numbers on a number line:

0.99	1.5	$\frac{9}{10}$	$-\frac{2}{5}$	$-\frac{1}{2}$	-2.25
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You can always find a number that fits in-between two other numbers.

DECIMALS

Adding another decimal place allows you to find numbers between number sets!

1.0	1.05	1.1
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Write a number in the blank spaces to find a number between each set of numbers:

12.34	12.34__	12.35
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7.555		7.556
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PRACTICE!

Fill in the missing digits so that the value in the middle decimal is between that of the top and bottom decimal

a) 0.3174

0.3__ __ __

0.2968

b) 0.3174

0. __ __ __

0.3000

9 MATH

Given the following sets of decimals, fill in the spaces so that, in each group, the value of the middle decimal is **between** that of the top and the bottom decimals:

0.3174

0.31__4

0.29__ __

0.____ _

0.2968

0.2 __ 68

In each of the following number pairs, put numbers in the blank spaces which will make the top number **less than** the bottom number:

3.2__0

3.__1__

__. __36

3.2__9

3.2__ __

__. __35

Place appropriate numbers in the missing spaces:

0.1			0.2
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3.3			3.4
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7.776			7.777
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12.0			12.1
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Fractions

Fractions are a bit more complex. There are a few guidelines to think about:

- IF the denominators are the same, the fraction with the **larger numerator** is the **greater fraction**.

$\frac{4}{5}$		$\frac{2}{5}$
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- If the numerator stays the same, but the denominator is different, the fraction with the **smaller** denominator is the **greater** fraction:

$\frac{4}{5}$		$\frac{4}{7}$
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- IF you can find equivalent fractions with the same denominators, **do it!** Then, simply pick the fraction with the highest numerator as the greater fraction.

$\frac{4}{5}$		$\frac{3}{10}$
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Practice!

Put a number in the blank space in each fraction, so that the top fraction is greater than the bottom fraction

$$\text{a) } \frac{\quad}{8}$$

$$\frac{\quad}{8}$$

$$\text{b) } \frac{9}{\quad}$$

$$\frac{\quad}{8}$$

Identify a fraction between the following:

$$\frac{2}{3} \text{ and } \frac{5}{6}$$

Fill the spaces with an appropriate number:

$\frac{1}{8}$			$\frac{1}{18}$
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$\frac{4}{8}$			$\frac{8}{8}$
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