Compare and Order Fractions and Decimals

Name .

Learning Target: Compare and order fractions and decimals. **Success Criteria:**

- I can rewrite fractions and decimals.
- I can compare fractions and decimals.
- I can order fractions and decimals from least to greatest.

Think and Grow

Example Compare 0.7 and $\frac{3}{5}$.

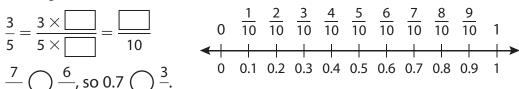
Write 0.7 as a fraction, 0.7 is 7 tenths, or $\frac{L}{r}$

When comparing fractions and decimals, write the numbers as all fractions or all decimals.

Write $\frac{3}{5}$ as an equivalent fraction with a denominator of 10.

$$\frac{3}{5} = \frac{3 \times \square}{5 \times \square} = \frac{\square}{10}$$

$$\frac{7}{10}$$
 \bigcirc $\frac{6}{10}$, so 0.7 \bigcirc $\frac{3}{5}$.



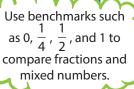


Example Order $\frac{3}{10}$, 0.09, $1\frac{1}{3}$, and $\frac{5}{6}$ from least to greatest.

$$\frac{3}{10}$$
 \bigcirc $\frac{1}{2}$ and is close to _____. 0.09 \bigcirc 0.1 and is close to ____

$$1\frac{1}{3}$$
 1 and is close to _____

$$1\frac{1}{3}$$
 1 and is close to _____. $\frac{5}{6}$ 1 and is close to _____.





So, the order from least to greatest is _____, ____,



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Show and Grow

Compare.

1. 1.25
$$\bigcirc \frac{7}{8}$$

2.
$$\frac{1}{5}$$
 0.25

3. Order 1.01, $\frac{5}{4}$, $\frac{7}{8}$, and 0.75 from least to greatest.

Practice

Compare.

4. 2.45 \bigcirc 2 $\frac{1}{4}$

5. $\frac{11}{10}$ 1.1

6. $\frac{1}{3}$ 0.86

Order the numbers from least to greatest.

7. $\frac{5}{8}$, 0.9, $\frac{1}{12}$

8. $1\frac{1}{6}$, 1.6, $\frac{2}{3}$

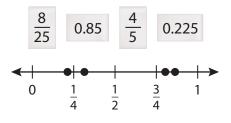
9. 0.55, $\frac{7}{5}$, 1.7, $\frac{7}{10}$

10. 0.072, $\frac{3}{2}$, 0.27, 0.2, $\frac{79}{100}$

11. $\frac{9}{100}$, 1.34, $\frac{13}{12}$, 0.8

- **12.** $1\frac{3}{8}$, 0.495, 1.15, $\frac{3}{5}$
- says the numbers shown are in order from least to greatest. Is he correct? Explain.
 - $0.105, \frac{3}{20}, 0.3$

14. Precision Write all of the numbers as fractions or as decimals. Then match each number with its point on the number line.



15. Modeling Real Life Order the insects from shortest to longest. Explain.

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Insect	Length (inches)
Ladybug	<u>2</u> 5
Honeybee	0.95
Dung beetle	$\frac{3}{4}$
Mosquito	0.475
Head louse	0.095