

NAME \_\_\_\_\_

Module 5    Decimal Operations, Exponents, and Powers  
Lesson 2    Converting, Comparing, and Ordering

### Lesson Objectives

- Convert, compare, and order fractions, decimals, and percents and find their approximate location on a number line.
- Compare and represent integers, fractions, and decimals and find their approximate location on a number line.

### Subtopic 1    Ordering Fractions, Decimals, and Integers

- On a number line, the number to the left is **less** than the number to the right.
- On a number line, the number to the right is **greater** than the number to the left.
- **Zero** is neither positive nor negative.
- Negative numbers lie to the **left** of zero on a number line.
- Positive numbers lie to the **right** of zero on a number line.

**1** Order from greatest to least using place value.  $0.55, \frac{1}{2}, -1, 2$

$$2 > 0.55 > 0.50 > -1$$

$$2 > 0.55 > \frac{1}{2} > -1$$

**2** Order from greatest to least using a number line.  $0.55, \frac{1}{2}, -1, 2$



$$2 > 0.55 > \frac{1}{2} > -1$$

**3** Order from least to greatest using place value.  $0.96, \frac{4}{5}, -\frac{1}{5}, 1$

$$-0.2$$

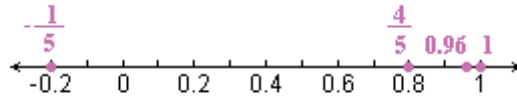
$$0.8$$

$$0.96$$

$$1$$

$$-\frac{1}{5} < \frac{4}{5} < 0.96 < 1$$

- 4 Order from least to greatest using a number line.  $0.96, \frac{4}{5}, -\frac{1}{5}, 1$



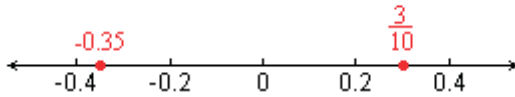
$$-0.2 < 0.8 < 0.96 < 1$$

$$-\frac{1}{5} < \frac{4}{5} < 0.96 < 1$$

### Subtopic 2 Comparing Fractions, Decimals, and Percents

- To compare numbers that are in different forms, rewrite them all in the same form.
- To change a percent to a decimal, move the decimal point two places to the left.

- 5 Compare  $\frac{3}{10}$  and  $-0.35$ . Write  $>$ ,  $<$ , or  $=$ .



$$0.3 > -0.35$$

$$\frac{3}{10} > -0.35$$

- 6 Compare  $30\%$  and  $\frac{1}{4}$ . Write  $>$ ,  $<$ , or  $=$ .

$$0.30 > 0.25$$

$$30\% > \frac{1}{4}$$

- 7 Compare  $0.4$  and  $5\%$ . Write  $>$ ,  $<$ , or  $=$ .

$$0.05 < 0.4$$

$$0.4 > 5\%$$