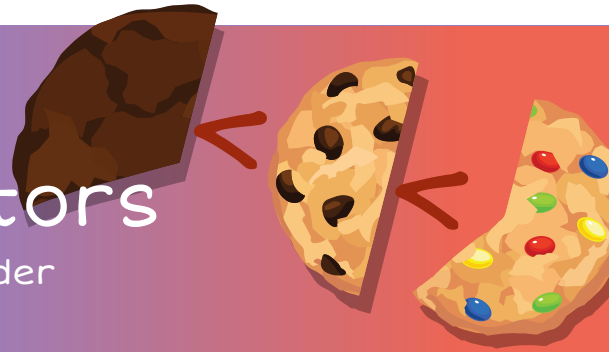Name: _____   Date: _____

Ordering Fractions Different Denominators

Create fraction models to compare and order fractions with different denominators.
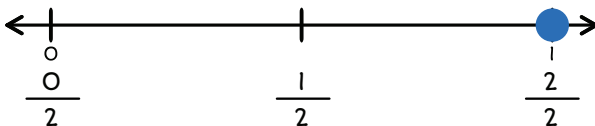
Joe is here to help you show your fraction knowledge! Look at the fractions in each problem. Draw different colored dots on each number line to show each fraction. Then compare the fractions (with <, >, or =) or put the fractions in order by writing them on the lines.

Example:

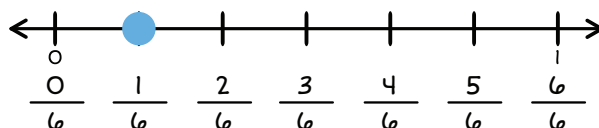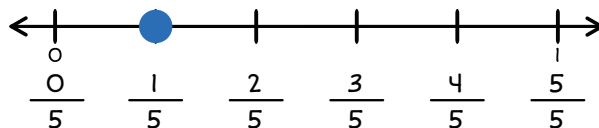Use the number lines to compare the fractions. Write the correct symbol in the circle.

$$\frac{2}{3} \; < \; \frac{2}{2}$$

Use the number lines to put $\frac{1}{4}$, $\frac{1}{6}$, and $\frac{1}{5}$ in order. Write the fractions in the correct order from **greatest** to **least**.

$$\frac{1}{4} \, , \; \frac{1}{5} \, , \; \frac{1}{6}$$
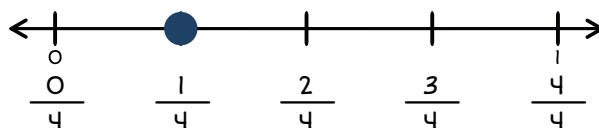
Use different colored dots to show each fraction!

1. Use the number lines to compare the fractions.
Write the correct symbol in the circle.

$$\frac{1}{7} \bigcirc \frac{1}{2}$$

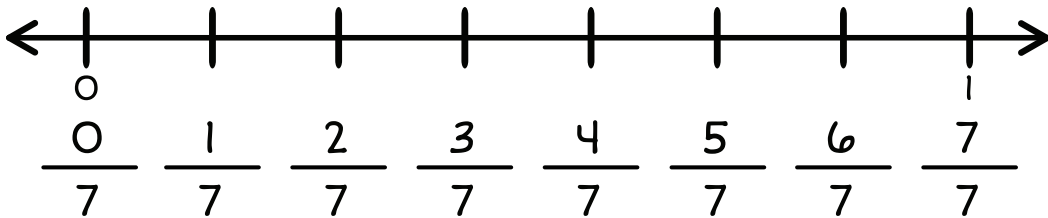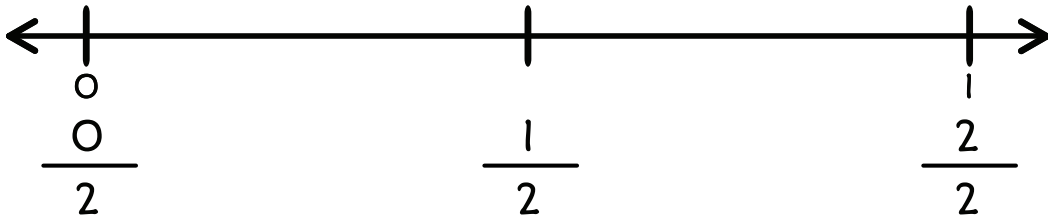$$\frac{0}{2} \qquad \frac{1}{2} \qquad \frac{2}{2}$$

$$\frac{0}{7} \quad \frac{1}{7} \quad \frac{2}{7} \quad \frac{3}{7} \quad \frac{4}{7} \quad \frac{5}{7} \quad \frac{6}{7} \quad \frac{7}{7}$$

2. Use the number lines to compare the fractions.
Write the correct symbol in the circle.

$$\frac{2}{5} \bigcirc \frac{2}{5}$$

$$\frac{0}{5} \quad \frac{1}{5} \quad \frac{2}{5} \quad \frac{3}{5} \quad \frac{4}{5} \quad \frac{5}{5}$$

$$\frac{0}{5} \quad \frac{1}{5} \quad \frac{2}{5} \quad \frac{3}{5} \quad \frac{4}{5} \quad \frac{5}{5}$$
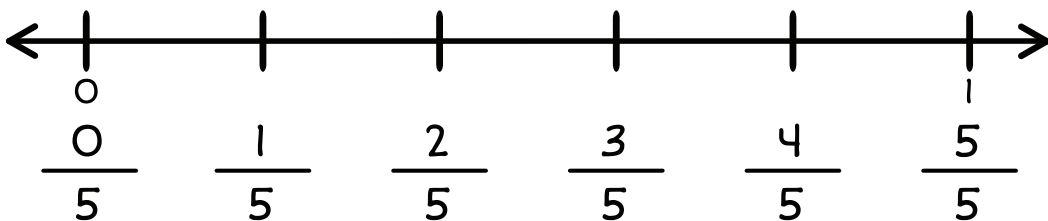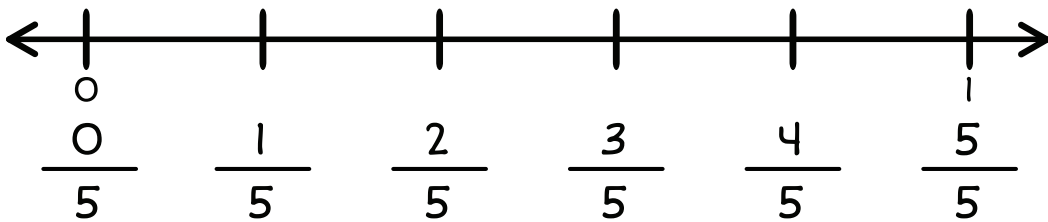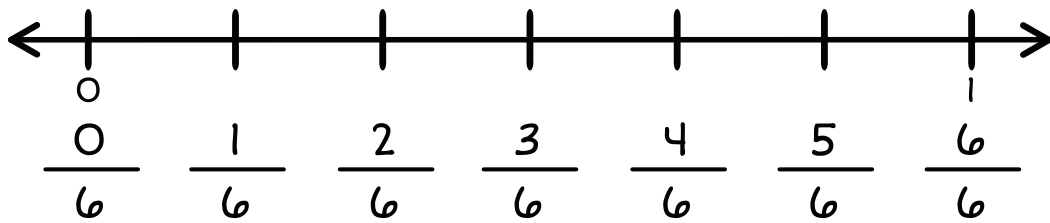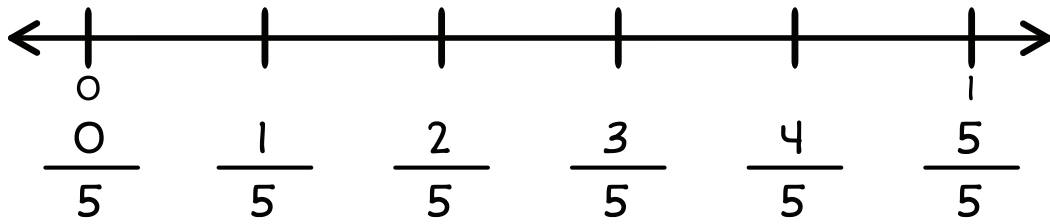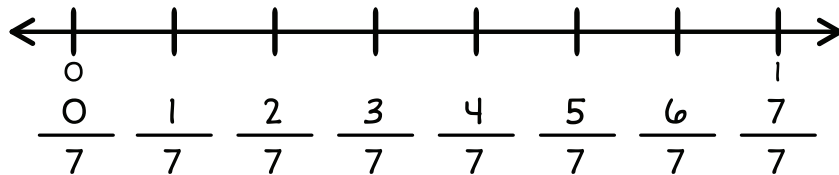
3. Use the number lines to compare the fractions.
Write the correct symbol in the circle.

$$\frac{5}{5} \bigcirc \frac{5}{6}$$

Number line:
$\frac{0}{5}$ (0) $\quad \frac{1}{5} \quad \frac{2}{5} \quad \frac{3}{5} \quad \frac{4}{5} \quad \frac{5}{5}$ (1)

Number line:
$\frac{0}{6}$ (0) $\quad \frac{1}{6} \quad \frac{2}{6} \quad \frac{3}{6} \quad \frac{4}{6} \quad \frac{5}{6} \quad \frac{6}{6}$ (1)

4. Use the number lines to put $\frac{1}{4}$, $\frac{1}{6}$, and $\frac{1}{7}$ in order from **least** to **greatest**.

[ ] , [ ] , [ ]

Number line:
$\frac{0}{4}$ (0) $\quad \frac{1}{4} \quad \frac{2}{4} \quad \frac{3}{4} \quad \frac{4}{4}$ (1)

Number line:
$\frac{0}{6}$ (0) $\quad \frac{1}{6} \quad \frac{2}{6} \quad \frac{3}{6} \quad \frac{4}{6} \quad \frac{5}{6} \quad \frac{6}{6}$ (1)

Number line:
$\frac{0}{7}$ (0) $\quad \frac{1}{7} \quad \frac{2}{7} \quad \frac{3}{7} \quad \frac{4}{7} \quad \frac{5}{7} \quad \frac{6}{7} \quad \frac{7}{7}$ (1)
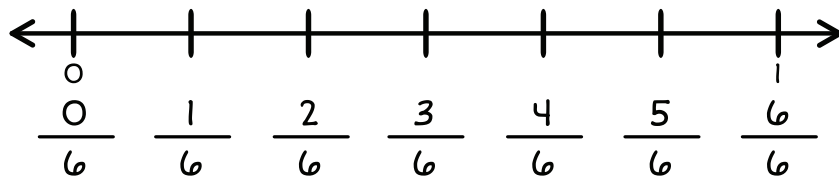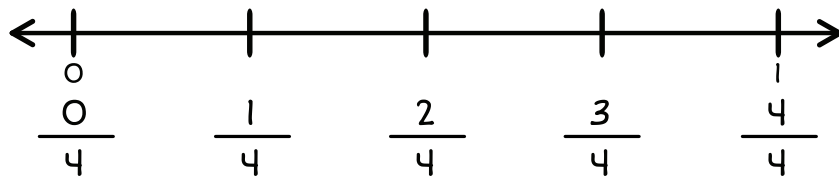
5. Use the number lines to put $\frac{3}{4}$, $\frac{3}{2}$, and $\frac{3}{3}$ in order from **greatest** to **least**.

[ ] , [ ] , [ ]

$$\begin{array}{ccccccccc} 0 & & & & 1 & & & & 2 \\ \frac{0}{4} & \frac{1}{4} & \frac{2}{4} & \frac{3}{4} & \frac{4}{4} & \frac{5}{4} & \frac{6}{4} & \frac{7}{4} & \frac{8}{4} \end{array}$$

$$\begin{array}{ccccc} 0 & & 1 & & 2 \\ \frac{0}{2} & \frac{1}{2} & \frac{2}{2} & \frac{3}{2} & \frac{4}{2} \end{array}$$

$$\begin{array}{ccccccc} 0 & & & 1 & & & 2 \\ \frac{0}{3} & \frac{1}{3} & \frac{2}{3} & \frac{3}{3} & \frac{4}{3} & \frac{5}{3} & \frac{6}{3} \end{array}$$
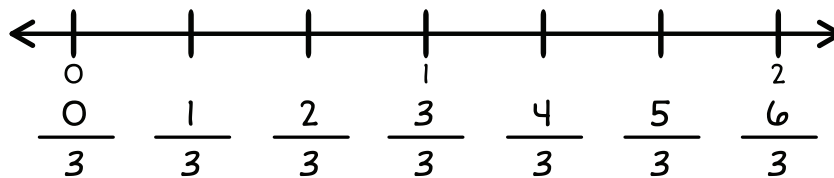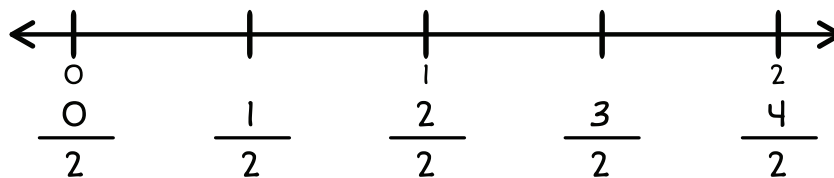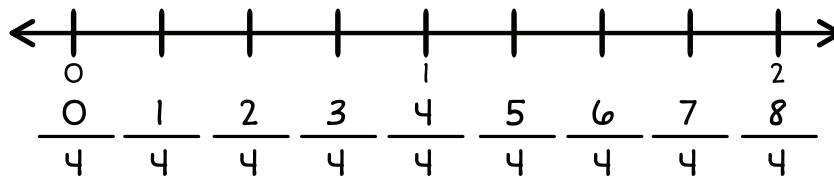
Challenge: Joe wants to know how to compare fractions when they have different denominators and different numerators. Look at the two fractions below. Which one do you think is greater? Circle it. Then write a sentence, draw a picture, or use the empty number lines below to explain your choice.

$$\frac{1}{5} \qquad \frac{4}{6}$$

$$\begin{array}{cccccc} 0 & & & & & 1 \\ \frac{0}{5} & \frac{1}{5} & \frac{2}{5} & \frac{3}{5} & \frac{4}{5} & \frac{5}{5} \end{array}$$

$$\begin{array}{ccccccc} 0 & & & & & & 1 \\ \frac{0}{6} & \frac{1}{6} & \frac{2}{6} & \frac{3}{6} & \frac{4}{6} & \frac{5}{6} & \frac{6}{6} \end{array}$$