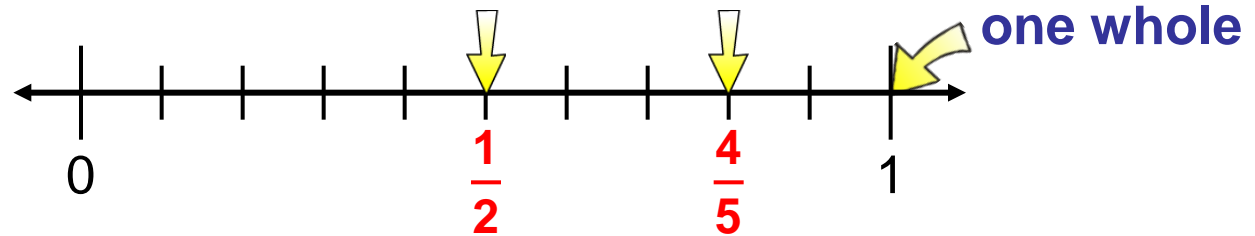


5.5 Compare & Order Rational Numbers

Objective: To compare and order rational numbers



Fractions & the Number Line



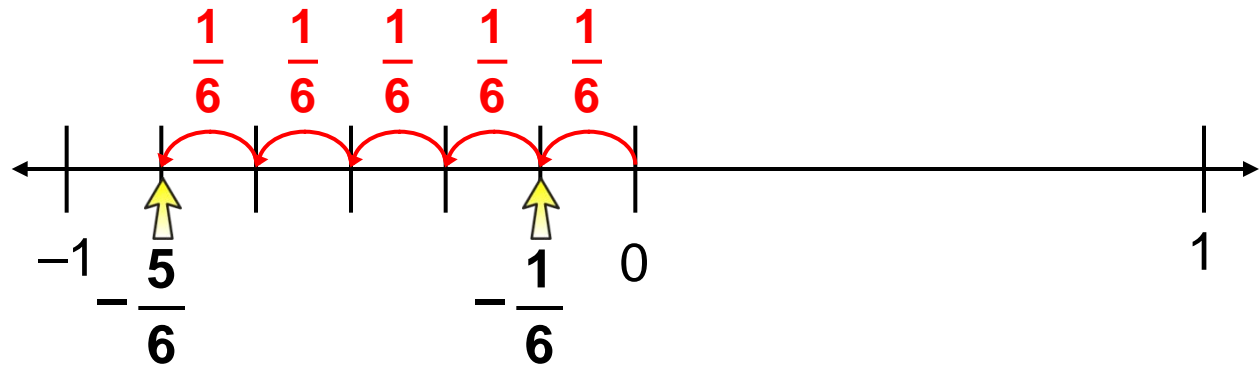
Think of 1 on the number line as representing one whole.

Positive fractions with a numerator smaller than the denominator, like $\frac{1}{2}$ or $\frac{4}{5}$, represent parts of a whole.

This means they are **between 0 and 1** on the number line.

Show $-\frac{1}{6}$ and $-\frac{5}{6}$ on a number line. Which is greater?

Divide the distance between 0 and -1 into 6 equal parts.

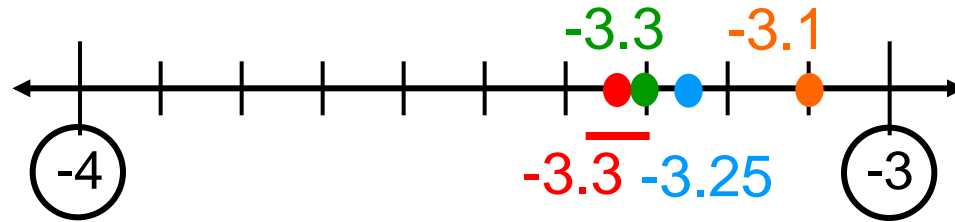


$-\frac{1}{6}$ lies further to the right, so it is greater, or $-\frac{1}{6} > -\frac{5}{6}$.

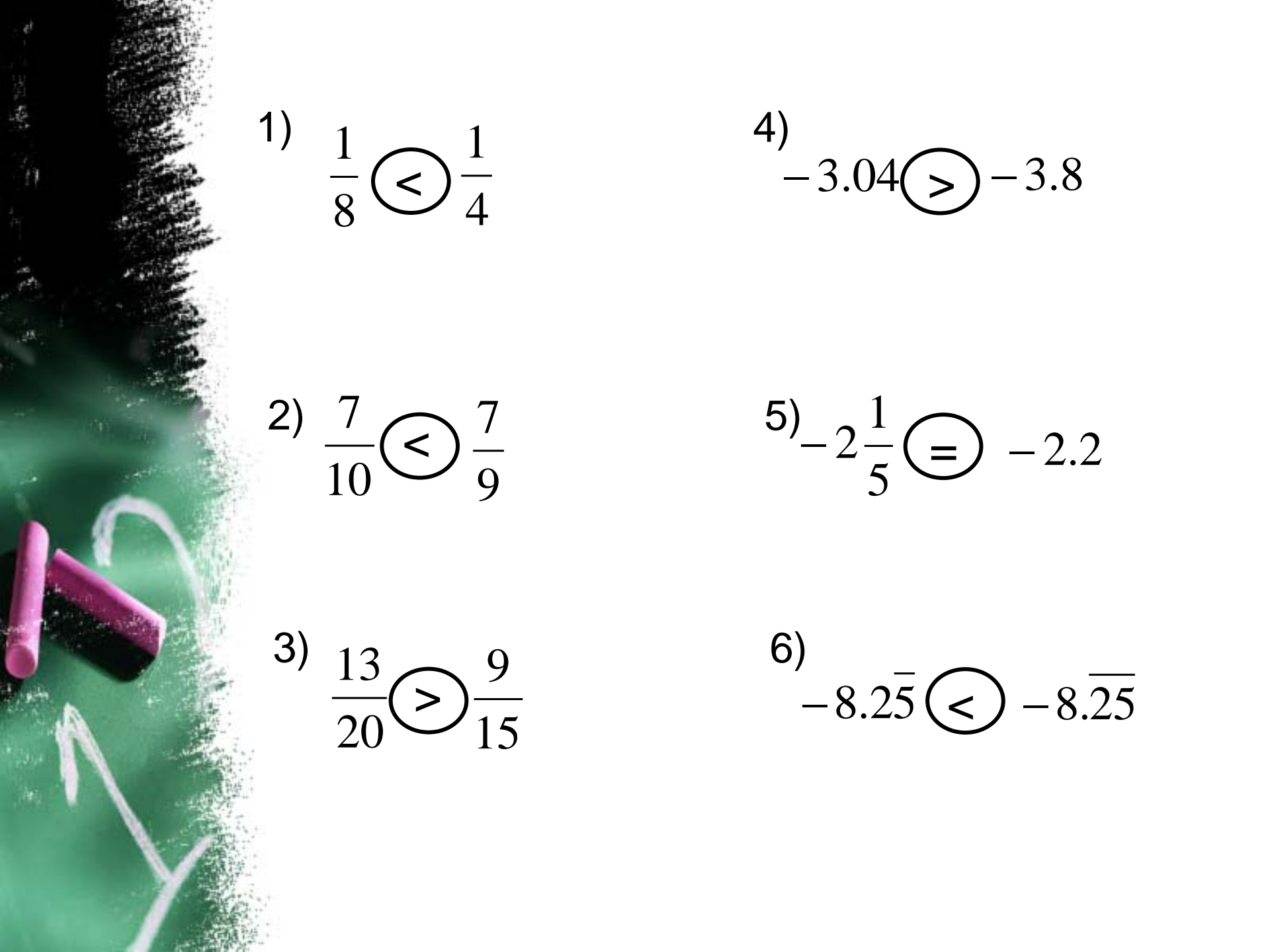
Order the numbers from least to greatest.

$$-3.1, -\frac{10}{3}, -3\frac{1}{4}, -3.3$$

$$-3.\overline{3} \quad -3.25$$



$$-\frac{10}{3}, -3.3, -3\frac{1}{4}, -3.1$$



1) $\frac{1}{8} < \frac{1}{4}$

4) $-3.04 > -3.8$

2) $\frac{7}{10} < \frac{7}{9}$

5) $-2\frac{1}{5} = -2.2$

3) $\frac{13}{20} > \frac{9}{15}$

6) $-8.\overline{25} < -8.\overline{25}$