

Compare and order (numerator)

- 1 Use strips of paper to represent the fractions and complete the sentences.

a) $\frac{1}{3}$, $\frac{1}{5}$ and $\frac{1}{6}$

The smallest fraction is $\frac{1}{6}$ The greatest fraction is $\frac{1}{3}$

b) $\frac{2}{3}$, $\frac{2}{5}$ and $\frac{2}{6}$

The smallest fraction is $\frac{2}{6}$ The greatest fraction is $\frac{2}{3}$

c) $\frac{3}{3}$, $\frac{3}{5}$ and $\frac{3}{6}$

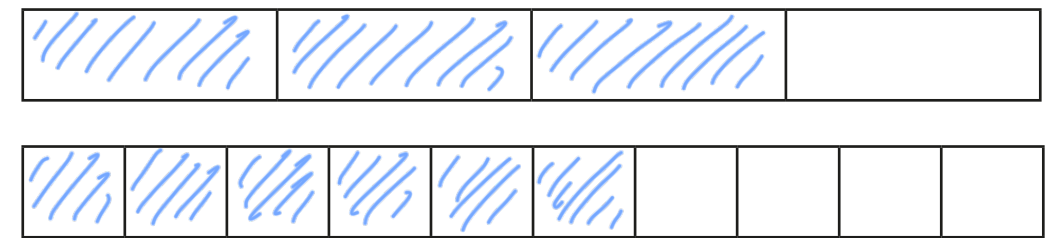
The smallest fraction is $\frac{3}{6}$ The greatest fraction is $\frac{3}{3}$

- d) What do you notice about your answers?

- e) Complete the sentence.

When the numerators are the same, the greater
the denominator, the smaller the fraction. (or smaller/greater)

- 2 a) Colour the bar models to compare $\frac{3}{4}$ and $\frac{6}{10}$



- b) Write <, > or = to complete the statement.

$\frac{3}{4} > \frac{6}{10}$ or $\frac{6}{10} < \frac{3}{4}$

- 3 Which is the greatest fraction? Circle your answer.

$\frac{3}{100}$ $\frac{3}{1,000}$ $\frac{3}{500}$

How do you know?

- 4 Write < or > to compare the fractions.

a) $\frac{1}{7} > \frac{1}{9}$

d) $\frac{11}{12} < \frac{11}{11}$

b) $\frac{4}{5} > \frac{4}{7}$

e) $\frac{19}{5} > \frac{19}{6}$

c) $\frac{3}{13} < \frac{3}{8}$

f) $\frac{107}{53} < \frac{107}{40}$



- 5 Explain how can you compare $\frac{2}{3}$ and $\frac{4}{5}$ using the same numerator rule.

$$\frac{2}{3} = \frac{4}{6} \quad \frac{4}{6} < \frac{4}{5} \quad \text{so} \quad \frac{2}{3} < \frac{4}{5}$$

Complete the sentence to compare $\frac{2}{3}$ and $\frac{4}{5}$

$$\boxed{\frac{4}{5}} \text{ is greater than } \boxed{\frac{2}{3}}$$

- 6 Scott scored 20 out of 24 in a game.

Dani scored 5 out of 7

Compare their scores.

Explain who you think did best and why.

$$\text{Scott: } \frac{20}{24} = \frac{5}{6} \quad \frac{5}{6} > \frac{5}{7} \quad \text{so Scott did better.}$$

$$\text{Dani: } \frac{5}{7}$$

- 7 Write $<$, $>$ or $=$ to complete each statement.

a) $\frac{2}{5} < 1\frac{1}{3}$ b) $\frac{2}{5} < \frac{6}{11}$ c) $3\frac{2}{3} > \frac{11}{4}$

$1\frac{2}{5} > \frac{1}{3}$ $1\frac{2}{5} < 3\frac{6}{11}$ $11\frac{2}{9} < \frac{101}{3}$

$1\frac{2}{5} > 1\frac{1}{3}$ $3\frac{2}{5} < 3\frac{6}{11}$ $11\frac{1}{9} < \frac{100}{8}$

$\frac{12}{5} < \frac{12}{3}$ $\frac{12}{5} < \frac{36}{11}$ $27\frac{3}{4} < \frac{111}{3}$

- 8 Explain how you know when it is best to compare the numerators or denominators of two fractions.

When the lowest common multiple of either the numerators or denominators is easier to find.

