Order fractions

1  a) Shade the bar models to represent the fractions.

\[
\begin{array}{c|c|c|c|c}
1/5 & 2/5 & 3/5 & 4/5 \\
\hline
\end{array}
\]

b) What do you notice?

c) Complete the sentence.

When fractions have the same denominator, the greater the numerator the greater the fraction.

2  Write the fractions in order, starting with the smallest.

\[
\begin{array}{c|c|c|c|c|c|c}
1/9 & 8/9 & 4/9 & 2/9 & 7/9 \\
1/9 & 2/9 & 4/9 & 7/9 & 8/9 \\
\end{array}
\]

3  a) Shade the bar models to represent the fractions.

\[
\begin{array}{c|c|c|c|c}
1/2 & 1/3 & 1/4 & 1/5 \\
\hline
\end{array}
\]

b) What do you notice?

c) Complete the sentence.

When fractions have the same denominator, the greater the numerator the greater the fraction.

4  Write the fractions in order, starting with the greatest.

\[
\begin{array}{c|c|c|c|c|c|c}
1/9 & 1/3 & 1/7 & 1/2 & 1/11 \\
1/9 & 1/3 & 1/7 & 1/9 & 1/11 \\
\end{array}
\]

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5 Tommy and Dora are ordering fractions.

\[
\begin{array}{cccc}
\frac{1}{5} & \frac{4}{15} & \frac{2}{3} & \frac{7}{15}
\end{array}
\]

I cannot order these fractions because the numerators and denominators are different.

Tommy

I think I can use equivalent fractions to help me.

Dora

Who do you agree with? **Dora**

Talk about it with a partner.

6 a) Complete the equivalent fractions.

\[
\begin{align*}
\frac{3}{5} &= \frac{6}{10} \\
\frac{2}{9} &= \frac{6}{27} \\
\frac{1}{7} &= \frac{6}{42}
\end{align*}
\]

b) Write the fractions in order, starting with the greatest.

\[
\begin{array}{cccc}
\frac{6}{9} & \frac{3}{5} & \frac{1}{7} & \frac{2}{9}
\end{array}
\]

7 Dexter and Alex are ordering fractions from smallest to greatest.

\[
\begin{array}{cccc}
\frac{1}{7} & \frac{2}{21} & \frac{4}{35} & \frac{2}{7}
\end{array}
\]

a) I am going to make the numerators the same.

Dexter

Use Dexter’s method to put the fractions in order.

\[
\begin{align*}
\frac{1}{7} &= \frac{2}{21} = \frac{4}{42} \\
\frac{4}{35} = \frac{8}{70} = \frac{6}{42}
\end{align*}
\]

\[
\frac{2}{21} , \frac{4}{35} , \frac{1}{7} , \frac{2}{7}
\]

b) I am going to make the denominators the same.

Alex

Use Alex’s method to put the fractions in order.

\[
\begin{align*}
\frac{1}{7} &= \frac{15}{105} \\
\frac{2}{21} &= \frac{10}{105} \\
\frac{4}{35} &= \frac{12}{105} \\
\frac{2}{7} &= \frac{30}{105}
\end{align*}
\]

\[
\frac{2}{21} , \frac{4}{35} , \frac{1}{7} , \frac{2}{7}
\]

c) Which method do you prefer? Talk about it with a partner.