

Ordering a set of fractions

WHAT THIS LESSON TEACHES

To compare two fractions with **different denominators**, rewrite them both with the **same** denominator, then compare numerators.

→ $\frac{1}{3}$ vs $\frac{2}{5}$: rewrite as $\frac{5}{15}$ and $\frac{6}{15}$. $\frac{6}{15}$ is bigger, so $\frac{2}{5} > \frac{1}{3}$.

→ $\frac{3}{4}$ vs $\frac{5}{8}$: rewrite $\frac{3}{4}$ as $\frac{6}{8}$. $\frac{6}{8} > \frac{5}{8}$, so $\frac{3}{4}$ is bigger.

ANSWER KEY

a)

Ascending: $\frac{1}{4} < \frac{1}{2} < \frac{2}{3} < \frac{5}{6}$ (decimals: $0.25 < 0.5 < 0.67 < 0.83$).

Q1: $\frac{2}{5} < \frac{7}{8} < \frac{11}{12}$

Q2: $\frac{2}{5} < \frac{7}{10} < \frac{9}{10}$

Q3: $\frac{1}{8} < \frac{2}{5} < \frac{7}{10} < \frac{9}{10}$

Q4: $\frac{1}{5} < \frac{3}{4} < \frac{7}{8} < \frac{11}{12}$

EXTENSION SHEET · STRETCH ANSWERS

S1: $\frac{1}{12} < \frac{1}{8} < \frac{7}{12} < \frac{3}{4}$

S3: $\frac{1}{12} < \frac{7}{12} < \frac{3}{4}$

S2: $\frac{1}{5} < \frac{3}{4} < \frac{7}{8}$