Compare and Order Fractions

Aim: To compare and order fractions, including fractions >1.

Top tip: Converting fractions to their decimal equivalents or changing fractions to have common denominators, makes them easier to compare.

1. Compare these fractions using the < and > symbols.

$$\frac{1}{2}$$
 $\frac{2}{5}$

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

$$\frac{3}{4}$$
 $\frac{7}{10}$

$$\frac{1}{8}$$
 $\frac{1}{5}$

$$\frac{1}{4}$$
 $\frac{3}{8}$

2. Put the following fractions in order from smallest to largest.

$1\frac{1}{2}$	$1\frac{3}{4}$	1 1 9	1 ¹ / ₈	1 ⁵ / ₈	1 ⁴ / ₅	$1\frac{2}{5}$	1 7/10

Smallest — > Largest

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1. Compare these fractions using the < and > symbols.

$$\frac{1}{2}$$
 $>$ $\frac{2}{5}$

$$\frac{1}{2}$$
 $<$ $\frac{5}{8}$

$$\frac{3}{8}$$
 $\left| \begin{array}{c} 2 \\ \hline 5 \end{array} \right|$

$$\frac{7}{10}$$
 $>$ $\frac{5}{8}$

$$\frac{1}{4}$$
 $>$ $\frac{1}{5}$

$$\frac{3}{4}$$
 $>$ $\frac{7}{10}$

$$\frac{1}{8}$$
 $\left| \begin{array}{c} 1 \\ \hline 5 \end{array} \right|$

$$\frac{4}{5}$$
 $>$ $\frac{3}{4}$

$$\frac{1}{4} < \frac{3}{8}$$

$$\frac{4}{5}$$
 $>$ $\frac{1}{2}$

2. Put the following fractions in order from smallest to largest.

$1\frac{1}{2}$	1 3/4	1 9/10	1 ¹ / ₈	1 ⁵ / ₈	1 ⁴ / ₅	1 ² / ₅	1 7/10

$1\frac{1}{8}$	$1\frac{2}{5}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{7}{10}$	$1\frac{3}{4}$	$1\frac{4}{5}$	$1\frac{9}{10}$

Smallest — > Large

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1. Compare these fractions using the < and > symbols. Simplify the fractions if necessary.

$$\frac{10}{20} \boxed{\frac{2}{5}}$$

$$\begin{array}{c|c}
1 \\
\hline
2 \\
\hline
\end{array}$$

$$\begin{array}{c|c}
3 \\
\hline
12
\end{array} \qquad \begin{array}{c|c}
1 \\
\hline
5
\end{array}$$

$$\begin{array}{c|c}
3 \\
\hline
4 \\
\hline
\end{array} \qquad \begin{array}{c|c}
21 \\
\hline
30 \\
\end{array}$$

$$\frac{1}{8}$$
 $\frac{5}{25}$

$$\frac{24}{30}$$
 $\frac{3}{4}$

$$\frac{6}{24}$$
 $\frac{3}{8}$

$$\frac{7}{8}$$
 $\frac{22}{24}$

2. Put the following fractions in order from smallest to largest.

$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{9}{10}$	1 1 8	$1^{\frac{21}{40}}$	$1^{\frac{14}{20}}$	$1\frac{6}{16}$	$1\frac{7}{10}$

Smallest — > Largest

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Top tip: Converting fractions to their decimal equivalents or changing fractions to have common denominators, makes them easier to compare.

1. Compare these fractions using the < and > symbols. Simplify the fractions if necessary.

$$\frac{10}{20} > \frac{2}{5}$$

$$\frac{1}{2} \left| \left\langle \right| \frac{10}{16} \right|$$

$$\frac{3}{8}$$
 $\left| \begin{array}{c} 8 \\ \hline 20 \end{array} \right|$

$$\frac{14}{20}$$
 $>$ $\frac{5}{8}$

$$\frac{3}{12}$$
 $>$ $\frac{1}{5}$

$$\frac{3}{4} > \frac{21}{30}$$

$$\frac{1}{8}$$
 $<$ $\frac{5}{25}$

$$\frac{24}{30}$$
 $>$ $\frac{3}{4}$

$$\frac{6}{24}$$
 < $\frac{3}{8}$

$$\frac{7}{8}$$
 $<$ $\frac{22}{24}$

2. Put the following fractions in order from smallest to largest.

$1\frac{1}{2}$	1 3/4	1 9/10	1 1 8	1_{40}^{21}	1 ¹⁴ / ₂₀	16/16	$1\frac{7}{10}$
1 :	16/16	$1\frac{1}{2}$	$1^{\frac{21}{10}}$	$1\frac{7}{10}$	$1\frac{14}{20}$	1 ³ / ₄	$1\frac{9}{10}$

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1. Compare these fractions using the < and > symbols. Simplify the fractions if necessary.

$$\begin{array}{c|c}
10 \\
\hline
20 \\
\hline
\end{array} \qquad \begin{array}{c|c}
6 \\
\hline
15 \\
\end{array}$$

$$\begin{array}{c|c}
3 \\
\hline
6 \\
\end{array} \qquad \begin{array}{c|c}
10 \\
18 \\
\end{array}$$

$$\frac{9}{24} \qquad \frac{8}{20}$$

$$\frac{14}{20} \qquad \frac{15}{24}$$

$$\begin{array}{c|c}
3 \\
\hline
12
\end{array} \qquad \begin{array}{c|c}
2 \\
\hline
10
\end{array}$$

$$\begin{array}{c|c}
8 \\
\hline
12
\end{array} \qquad \begin{array}{c|c}
12 \\
\hline
16
\end{array}$$

$$\frac{8}{9}$$
 $\frac{6}{7}$

$$\frac{24}{30} \qquad \frac{15}{20}$$

$$\begin{array}{c|c}
6 \\
\hline
24 \\
\hline
\end{array}$$

$$\frac{12}{15}$$
 $\frac{13}{20}$

2. Put the following fractions in order from smallest to largest.

3 2	7/4	19 10	9/8	<u>13</u> 8	<u>9</u> 5	<u>7</u> 5	17 10



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1. Compare these fractions using the < and > symbols. Simplify the fractions if necessary.

$$\frac{10}{20} > \frac{6}{15}$$

$$\frac{3}{6}$$
 $<$ $\frac{10}{18}$

$$\frac{9}{24} \left[< \right] \frac{8}{20}$$

$$\frac{14}{20}$$
 $>$ $\frac{15}{24}$

$$\frac{3}{12} > \frac{2}{10}$$

$$\frac{8}{12} \left[< \right] \frac{12}{16}$$

$$\frac{8}{9}$$
 $\left| \begin{array}{c} 6 \\ 7 \end{array} \right|$

$$\frac{24}{30}$$
 $>$ $\frac{15}{20}$

$$\frac{6}{24} \left| \left\langle \right| \frac{6}{16} \right|$$

$$\frac{12}{15}$$
 $>$ $\frac{13}{20}$

2. Put the following fractions in order from smallest to largest.

3 2	7/4	19 10	98	13 8	<u>9</u> 5	<u>7</u> 5	17 10
<u>9</u> 8	<u>7</u> 5	3 2	<u>13</u> 8	17 10	7/4	<u>9</u> 5	19 10