

Compare unlike fractions

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Use the explanations to discuss the idea. A worked answer is one example; equivalent answers may also be valid.

1. Compare $\frac{3}{6}$ $\underline{\hspace{1cm}}$ $\frac{15}{10}$ of the same-sized whole.

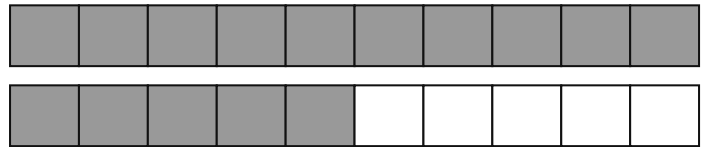
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$\frac{3}{6} < \frac{15}{10}$. Rename both with denominator 60: $\frac{30}{60}$ and $\frac{90}{60}$. Now each piece is the same size, so compare 30 and 90.

$\frac{3}{6}$



$\frac{15}{10}$



2. Compare $\frac{7}{4}$ $\underline{\hspace{1cm}}$ $\frac{2}{3}$ of the same-sized whole.

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$\frac{7}{4} > \frac{2}{3}$. Rename both with denominator 12: $\frac{21}{12}$ and $\frac{8}{12}$. Now each piece is the same size, so compare 21 and 8.

$\frac{7}{4}$



$\frac{2}{3}$



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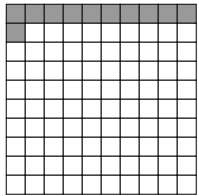
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3. Compare $11/100$ $_$ $1/3$ of the same-sized whole.

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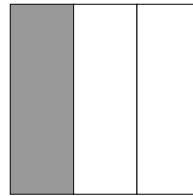
$11/100 < 1/3$. Rename both with denominator 300: $33/300$ and $100/300$. Now each piece is the same size, so compare 33 and 100.

$11/100$



Each square is one whole, with 10 rows of 10 hundredths.

$1/3$



Each square is one whole, with 3 equal parts.

4. Compare $17/12$ $_$ $9/5$ of the same-sized whole.

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$17/12 < 9/5$. Rename both with denominator 60: $85/60$ and $108/60$. Now each piece is the same size, so compare 85 and 108.

$17/12$



$9/5$



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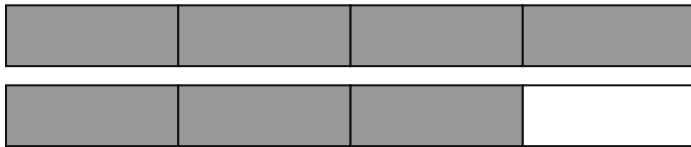
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5. Compare $\frac{7}{4}$ $\underline{\hspace{1cm}}$ $\frac{3}{2}$ of the same-sized whole.

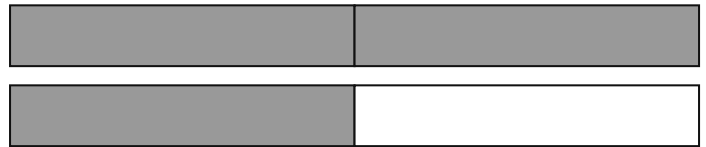
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$\frac{7}{4} > \frac{3}{2}$. Rename both with denominator 8: $\frac{14}{8}$ and $\frac{12}{8}$. Now each piece is the same size, so compare 14 and 12.

$\frac{7}{4}$



$\frac{3}{2}$



6. Compare $\frac{5}{8}$ $\underline{\hspace{1cm}}$ $\frac{3}{6}$ of the same-sized whole. Which reason would help you solve this correctly?

Rename both fractions with a common denominator, or compare them with one half or one whole.

$\frac{5}{8}$



$\frac{3}{6}$



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7. Compare $\frac{3}{4}$ $\underline{\hspace{1cm}}$ $\frac{4}{8}$ meter lengths.

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$\frac{3}{4} > \frac{4}{8}$. Rename both with denominator 32: $\frac{24}{32}$ and $\frac{16}{32}$. Now each piece is the same size, so compare 24 and 16.

$\frac{3}{4}$



$\frac{4}{8}$

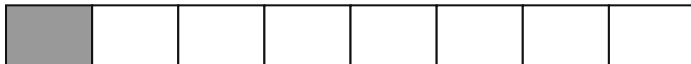


8. Compare $\frac{1}{8}$ $\underline{\hspace{1cm}}$ $\frac{8}{8}$ of the same-sized whole.

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$\frac{1}{8} < \frac{8}{8}$. The denominators match, so comparing numerators compares the amounts.

$\frac{1}{8}$



$\frac{8}{8}$

