

Compare unlike fractions

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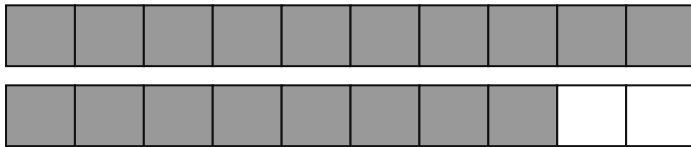
Use the explanations to discuss the idea. A worked answer is one example; equivalent answers may also be valid.

1. Compare $18/10$ $\underline{\hspace{1cm}}$ $4/3$ of the same-sized whole.

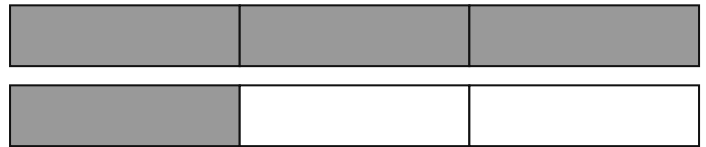
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$18/10 > 4/3$. Rename both with denominator 30: $54/30$ and $40/30$. Now each piece is the same size, so compare 54 and 40.

$18/10$



$4/3$

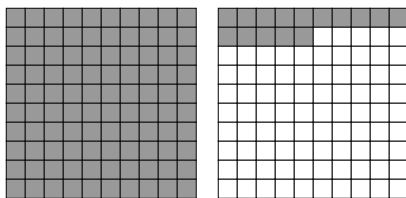


2. Compare $115/100$ $\underline{\hspace{1cm}}$ $5/8$ of the same-sized whole.

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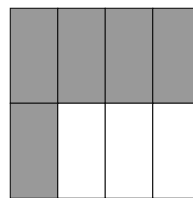
$115/100 > 5/8$. Rename both with denominator 800: $920/800$ and $500/800$. Now each piece is the same size, so compare 920 and 500.

$115/100$



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

$5/8$



Each square is one whole, with 8 equal parts.

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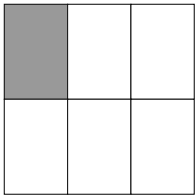
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3. Compare $\frac{1}{6}$ $\underline{\hspace{1cm}}$ $\frac{86}{100}$ of the same-sized whole.

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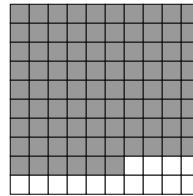
$\frac{1}{6} < \frac{86}{100}$. Rename both with denominator 600: $\frac{100}{600}$ and $\frac{516}{600}$. Now each piece is the same size, so compare 100 and 516.

$\frac{1}{6}$



Each square is one whole, with 6 equal parts.

$\frac{86}{100}$

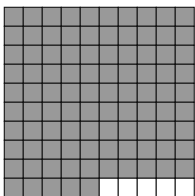


Each square is one whole, with 10 rows of 10 hundredths.

4. Compare $\frac{95}{100}$ $\underline{\hspace{1cm}}$ $\frac{1}{10}$ of the same-sized whole. Which reason would help you solve this correctly?

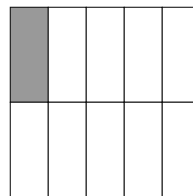
Rename both fractions with a common denominator, or compare them with one half or one whole.

$\frac{95}{100}$



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

$\frac{1}{10}$



Each square is one whole, with 10 equal parts.

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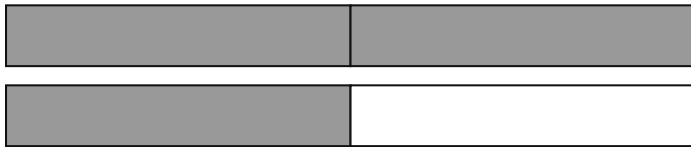
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5. Compare $\frac{3}{2}$ $\underline{\hspace{1cm}}$ $\frac{8}{10}$ meter lengths.

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$\frac{3}{2} > \frac{8}{10}$. Rename both with denominator 20: $\frac{30}{20}$ and $\frac{16}{20}$. Now each piece is the same size, so compare 30 and 16.

$\frac{3}{2}$



$\frac{8}{10}$

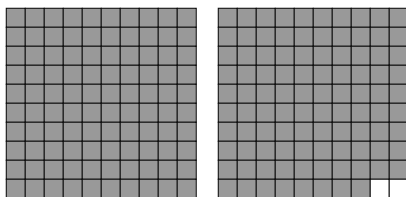


6. Compare $\frac{198}{100}$ $\underline{\hspace{1cm}}$ $\frac{1}{6}$ meter lengths.

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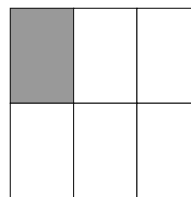
$\frac{198}{100} > \frac{1}{6}$. Rename both with denominator 600: $\frac{1188}{600}$ and $\frac{100}{600}$. Now each piece is the same size, so compare 1188 and 100.

$\frac{198}{100}$



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

$\frac{1}{6}$



Each square is one whole, with 6 equal parts.

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7. Compare $\frac{3}{6}$ $\underline{\hspace{1cm}}$ $\frac{2}{6}$ of the same-sized whole.

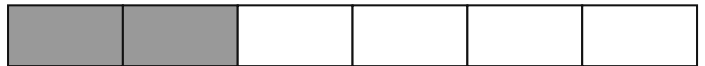
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$\frac{3}{6} > \frac{2}{6}$. The denominators match, so comparing numerators compares the amounts.

$\frac{3}{6}$



$\frac{2}{6}$

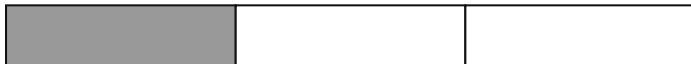


8. Compare $\frac{1}{3}$ $\underline{\hspace{1cm}}$ $\frac{1}{6}$ of the same-sized whole.

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$\frac{1}{3} > \frac{1}{6}$. Equal counts of smaller pieces make a smaller amount.

$\frac{1}{3}$



$\frac{1}{6}$

