

Compare and rename fractions • Lesson B

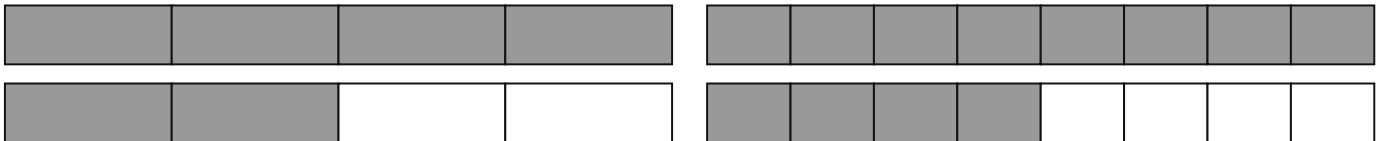
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Use the explanations to discuss the idea. A worked answer is one example; equivalent answers may also be valid.

1. Write a fraction equal to $\frac{6}{4}$ with denominator 8.

$\frac{12}{8}$

$\frac{6}{4} = (6 \times 2)/(4 \times 2) = \frac{12}{8}$. The whole and the shaded amount stay the same.



2. Compare $\frac{1}{3}$ $\frac{2}{3}$ of the same-sized whole.

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$\frac{1}{3} < \frac{2}{3}$. The denominators match, so comparing numerators compares the amounts.

$\frac{1}{3}$

$\frac{2}{3}$



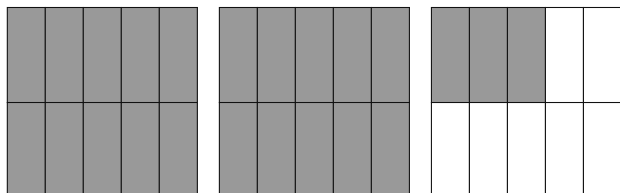
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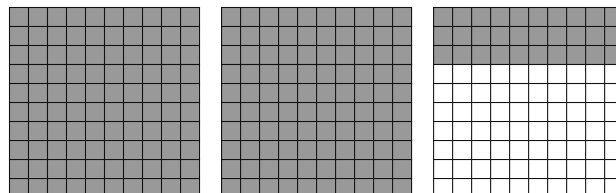
3. Fill in the missing numerator: $23/10 = ?/100$.

230

$23/10 = (23 \times 10)/(10 \times 10) = 230/100$. The whole and the shaded amount stay the same.



Each square is one whole, with 10 equal parts.



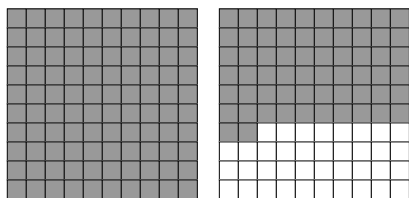
Each square is one whole, with 10 rows of 10 hundredths.

4. Compare $162/100$ $5/3$ of the same-sized whole.

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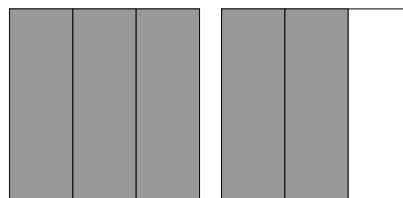
$162/100 < 5/3$. Rename both with denominator 300: $486/300$ and $500/300$. Now each piece is the same size, so compare 486 and 500.

162/100



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

5/3



Each square is one whole, with 3 equal parts.

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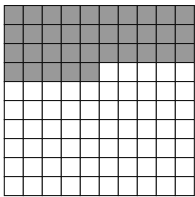
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5. Compare $35/100$ $\underline{\hspace{1cm}}$ $3/5$ of the same-sized whole.

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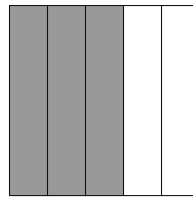
$35/100 < 3/5$. Rename both with denominator 500: $175/500$ and $300/500$. Now each piece is the same size, so compare 175 and 300.

$35/100$



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

$3/5$



Each square is one whole, with 5 equal parts.

6. Write $36/100$ as a sum of two positive fractions with denominator 100.

$1/100 + 35/100$ (other positive sums with denominator 100 are valid)

One possible sum is $1/100 + 35/100$. Any two positive numerators totaling 36, each over 100, work; either order is valid.

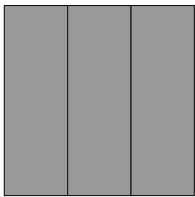
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7. Compare $\frac{3}{3}$ $\frac{144}{100}$ of the same-sized whole. Which reason would help you solve this correctly?

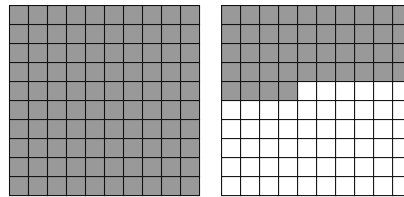
Rename both fractions with a common denominator, or compare them with one half or one whole.

$\frac{3}{3}$



Each square is one whole, with 3 equal parts.

$\frac{144}{100}$



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

8. Split a $\frac{10}{5}$ -meter ribbon into two positive lengths. Write both lengths with denominator 5.

$\frac{1}{5} + \frac{9}{5}$ (other positive sums with denominator 5 are valid)

One possible sum is $\frac{1}{5} + \frac{9}{5}$. Any two positive numerators totaling 10, each over 5, work; either order is valid.