

Equivalent fractions with models

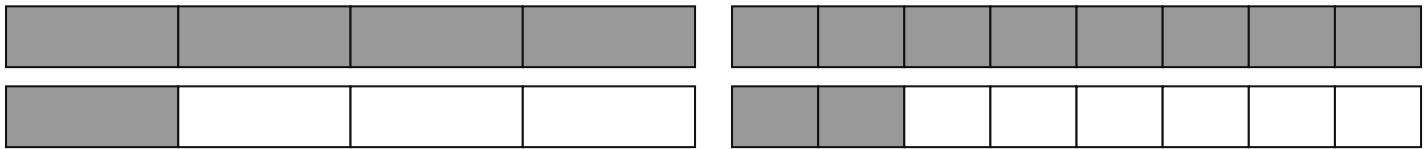
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Use the explanations to discuss the idea. A worked answer is one example; equivalent answers may also be valid.

1. Split each original part into 2 equal pieces. Keep the shaded amount the same.

Split each original part into 2 equal pieces: $10/8$.

$5/4 = (5 \times 2)/(4 \times 2) = 10/8$. The whole and the shaded amount stay the same.



2. Write a fraction equal to $2/2$ with denominator 8.

$8/8$

$2/2 = (2 \times 4)/(2 \times 4) = 8/8$. The whole and the shaded amount stay the same.



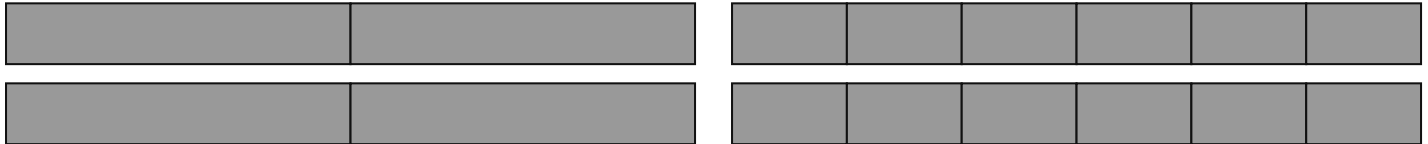
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3. Write a fraction equal to $\frac{4}{2}$ with denominator 6.

$\frac{12}{6}$

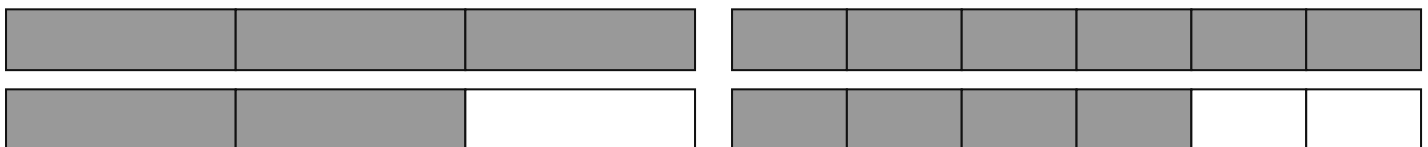
$\frac{4}{2} = (4 \times 3)/(2 \times 3) = \frac{12}{6}$. The whole and the shaded amount stay the same.



4. Write a fraction equal to $\frac{5}{3}$ with denominator 6.

$\frac{10}{6}$

$\frac{5}{3} = (5 \times 2)/(3 \times 2) = \frac{10}{6}$. The whole and the shaded amount stay the same.



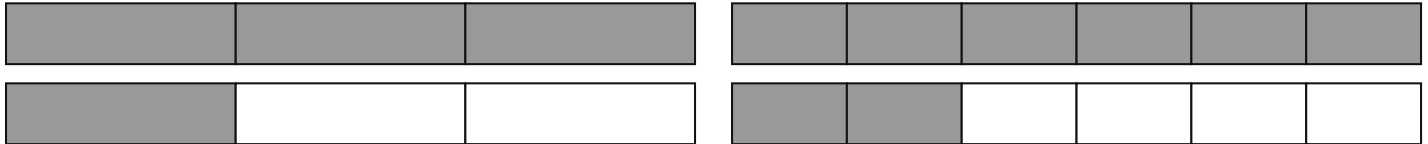
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5. Write a fraction equal to $\frac{4}{3}$ with denominator 6.

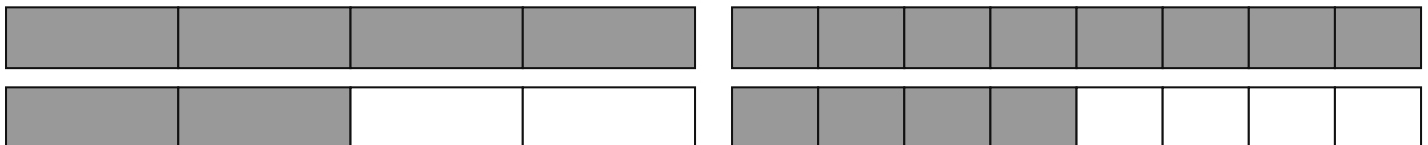
$\frac{8}{6}$

$\frac{4}{3} = (4 \times 2) / (3 \times 2) = \frac{8}{6}$. The whole and the shaded amount stay the same.



6. Write a fraction equal to $\frac{6}{4}$ with denominator 8. Which reason would help you solve this correctly?

Each old part becomes 2 smaller equal parts. Change both numerator and denominator by the same factor.



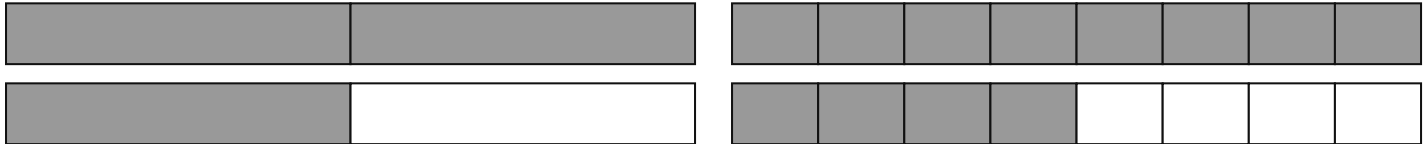
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7. A ribbon is $\frac{3}{2}$ meter long. Express that same length with denominator 8.

$\frac{12}{8}$

$\frac{3}{2} = (3 \times 4)/(2 \times 4) = \frac{12}{8}$. The whole and the shaded amount stay the same.



8. What fraction of the whole is shaded?

$\frac{3}{4}$

3 out of 4 equal parts are selected, so the fraction is $\frac{3}{4}$.

