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.

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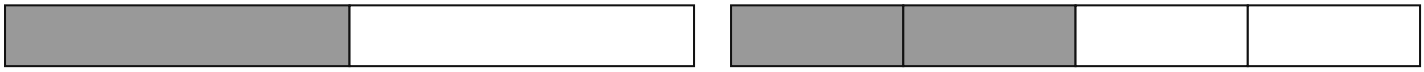
1. Split each original part into 2 equal pieces. Keep the shaded amount the same.

Split each original part into 2 equal pieces: 2/4.

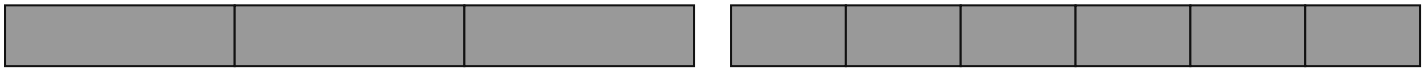
1/2 = (1 × 2)/(2 × 2) = 2/4. The whole and the shaded amount stay the same.



2. Write a fraction equal to 3/3 with denominator 6.

6/6

3/3 = (3 × 2)/(3 × 2) = 6/6. The whole and the shaded amount stay the same.



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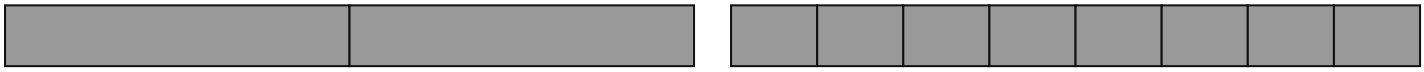
3. Write a fraction equal to 2/2 with denominator 8.

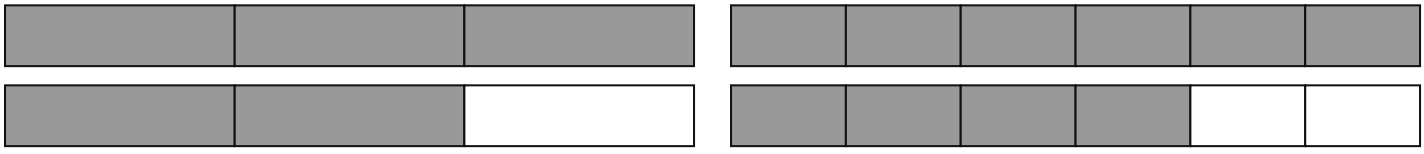
8/8

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



4. Write a fraction equal to 5/3 with denominator 6. 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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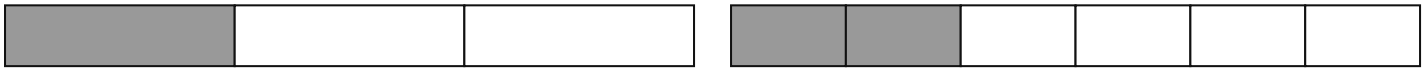
5. A ribbon is 1/3 meter long. Express that same length with denominator 6.

2/6

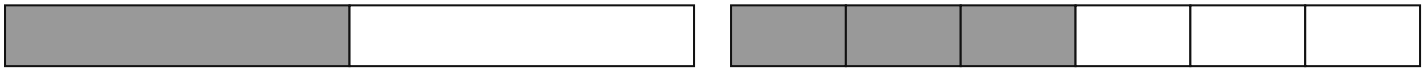
1/3 = (1 × 2)/(3 × 2) = 2/6. The whole and the shaded amount stay the same.



6. A ribbon is 1/2 meter long. Express that same length with denominator 6.

3/6

1/2 = (1 × 3)/(2 × 3) = 3/6. The whole and the shaded amount stay the same.



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7. What fraction of the whole is shaded?

1

4 out of 4 equal parts are selected, so the fraction is 4/4.

8. What fraction of the whole is shaded?

1

2 out of 2 equal parts are selected, so the fraction is 2/2.