

Make equivalent fractions

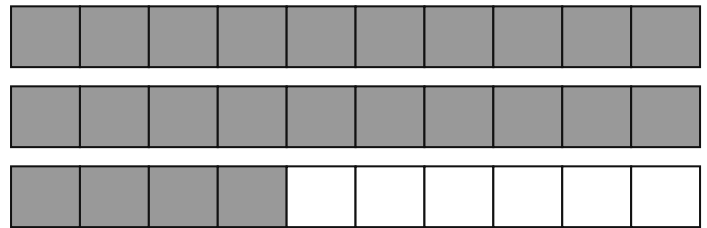
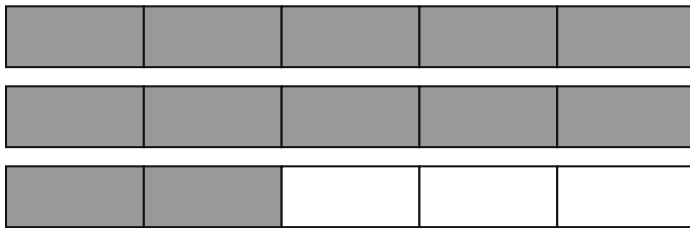
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Use the explanations to discuss the idea. A worked answer is one example; equivalent answers may also be valid.

1. Fill in the missing numerator: $12/5 = ?/10$.

24

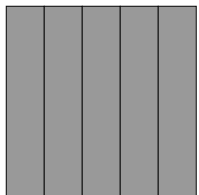
$12/5 = (12 \times 2)/(5 \times 2) = 24/10$. The whole and the shaded amount stay the same.



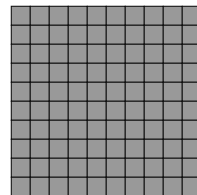
2. Fill in the missing numerator: $5/5 = ?/100$.

100

$5/5 = (5 \times 20)/(5 \times 20) = 100/100$. The whole and the shaded amount stay the same.



Each square is one whole, with 5 equal parts.



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

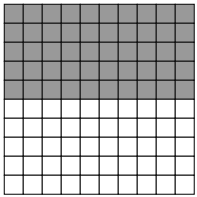
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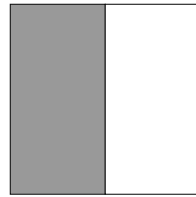
3. Write $50/100$ in simplest form.

$1/2$

Divide both numbers by 50: $50/100 = 1/2$. These numbers have no common factor greater than 1, and the amount stays the same.



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



Each square is one whole, with 2 equal parts.

4. Fill in the missing numerator: $3/3 = ?/6$. 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.



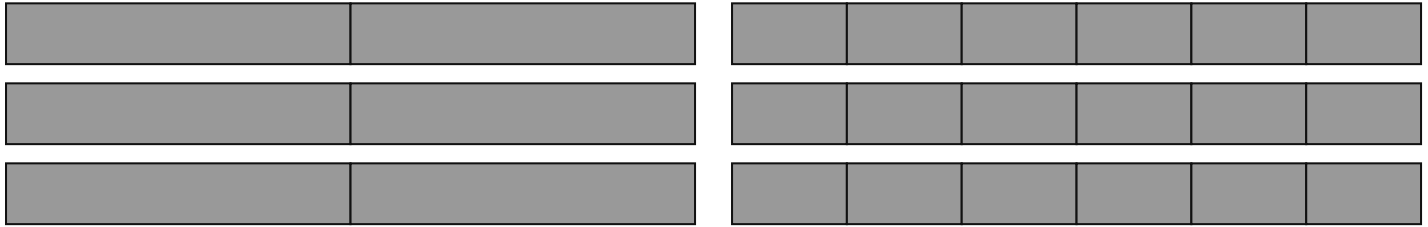
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5. A ribbon length is $\frac{6}{2}$ meter. Write an equal fraction with denominator 6. What numerator is needed?

18

$\frac{6}{2} = (6 \times 3) / (2 \times 3) = \frac{18}{6}$. The whole and the shaded amount stay the same.



6. A ribbon is $\frac{12}{12}$ meter long. Write this length in simplest form.

1

Divide both numbers by 12: $\frac{12}{12} = \frac{1}{1}$. These numbers have no common factor greater than 1, and the amount stays the same.



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7. Write a fraction equal to $\frac{1}{3}$ with denominator 6.

$\frac{2}{6}$

$\frac{1}{3} = (1 \times 2) / (3 \times 2) = \frac{2}{6}$. The whole and the shaded amount stay the same.



8. Write 0 as a fraction with denominator 3.

$\frac{0}{3}$

$0 \times 3 = 0$ parts, so $0 = \frac{0}{3}$.