

Make equivalent fractions

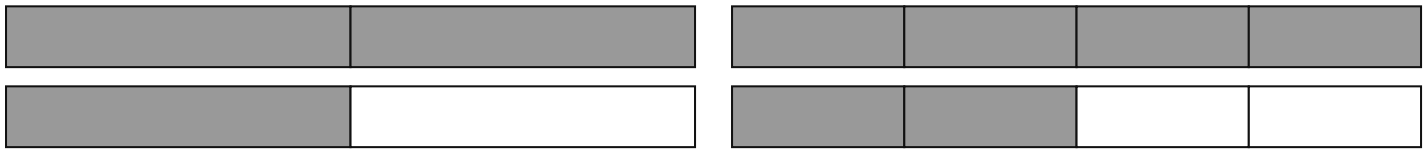
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Use the explanations to discuss the idea. A worked answer is one example; equivalent answers may also be valid.

1. Fill in the missing numerator: $\frac{3}{2} = \frac{?}{4}$.

6

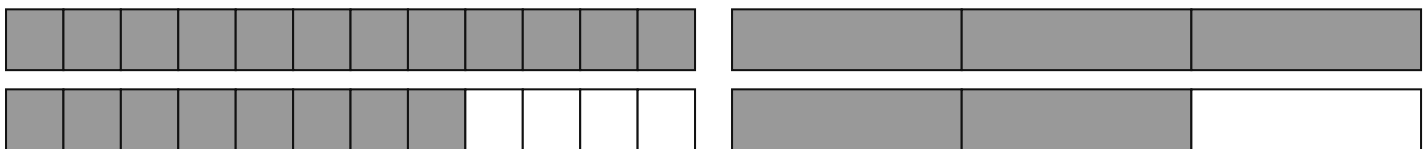
$\frac{3}{2} = \frac{(3 \times 2)}{(2 \times 2)} = \frac{6}{4}$. The whole and the shaded amount stay the same.



2. Write $\frac{20}{12}$ in simplest form.

$\frac{5}{3}$

Divide both numbers by 4: $\frac{20}{12} = \frac{5}{3}$. These numbers have no common factor greater than 1, and the amount stays the same.



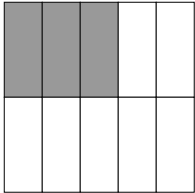
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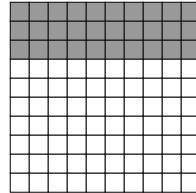
3. Fill in the missing numerator: $3/10 = ?/100$.

30

$3/10 = (3 \times 10)/(10 \times 10) = 30/100$. 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. Write $5/10$ in simplest form.

$1/2$

Divide both numbers by 5: $5/10 = 1/2$. These numbers have no common factor greater than 1, and the amount stays the same.



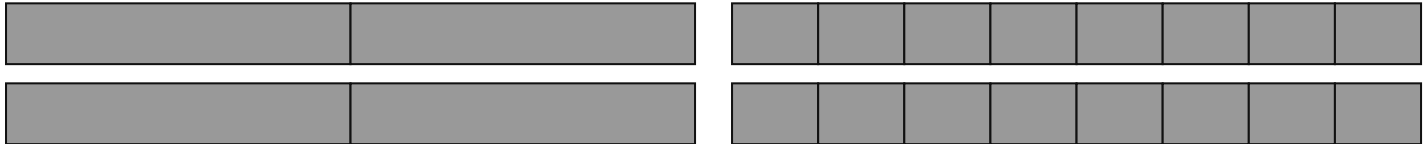
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5. Fill in the missing numerator: $4/2 = ?/8$.

16

$4/2 = (4 \times 4)/(2 \times 4) = 16/8$. The whole and the shaded amount stay the same.



6. Fill in the missing numerator: $3/4 = ?/8$. 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.



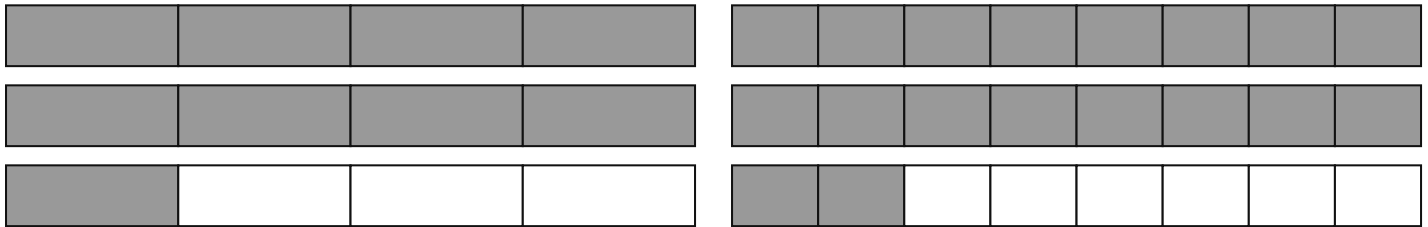
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7. A ribbon length is $\frac{9}{4}$ meter. Write an equal fraction with denominator 8. What numerator is needed?

18

$\frac{9}{4} = (9 \times 2)/(4 \times 2) = \frac{18}{8}$. The whole and the shaded amount stay the same.



8. Write 4 as a fraction with denominator 4.

$\frac{16}{4}$

$4 \times 4 = 16$ parts, so $4 = \frac{16}{4}$.