

Add and subtract fractions • Lesson A

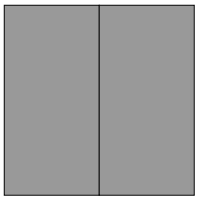
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Use the explanations to discuss the idea. A worked answer is one example; equivalent answers may also be valid.

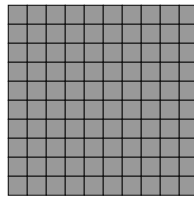
1. Fill in the missing numerator: $2/2 = ?/100$.

100

$2/2 = (2 \times 50)/(2 \times 50) = 100/100$. The whole and the shaded amount stay the same.



Each square is one whole, with 2 equal parts.



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

2. Find $49/100 + 92/100$.

141/100

$49/100 + 92/100 = 49/100 + 92/100 = 141/100 = 1 \frac{41}{100}$.

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3. Find $56/100 - 54/100$.

1/50

$$56/100 - 54/100 = 56/100 - 54/100 = 1/50.$$

4. Write $1 \frac{1}{12}$ as a fraction with denominator 12.

13/12

$1 \frac{1}{12} = 13/12$. Convert whole parts before combining or regrouping.



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5. Find $1 \frac{8}{100} + 1 \frac{82}{100}$.

$\frac{29}{10}$

$$1 \frac{8}{100} + 1 \frac{82}{100} = \frac{108}{100} + \frac{182}{100} = \frac{29}{10} = 2 \frac{9}{10}.$$

6. Is $\frac{3}{11} + \frac{1}{2}$ less than, equal to, or greater than 1? Which reason would help you solve this correctly?

Use one half and one whole as benchmarks. If it is close, rename the fractions to check the boundary exactly.

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7. Find $\frac{1}{6} - \frac{1}{7}$.

$\frac{1}{42}$

$$\frac{1}{6} - \frac{1}{7} = \frac{7}{42} - \frac{6}{42} = \frac{1}{42}.$$

8. Find $\frac{1}{2} - \frac{2}{5}$.

$\frac{1}{10}$

$$\frac{1}{2} - \frac{2}{5} = \frac{5}{10} - \frac{4}{10} = \frac{1}{10}.$$