

Mixed numbers with like denominators

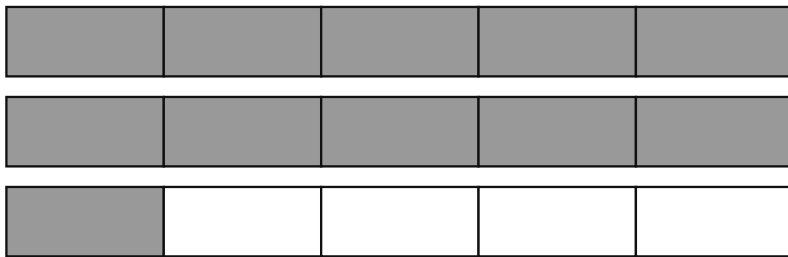
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Use the explanations to discuss the idea. A worked answer is one example; equivalent answers may also be valid.

1. Write $2 \frac{1}{5}$ as a fraction with denominator 5.

$\frac{11}{5}$

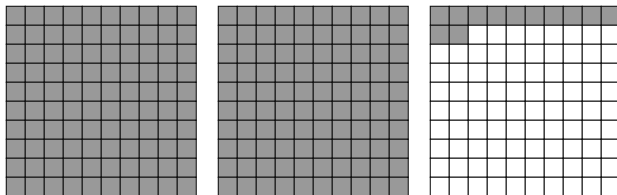
$2 \frac{1}{5} = \frac{11}{5}$. Convert whole parts before combining or regrouping.



2. Write $212/100$ as a mixed number.

$2 \frac{3}{25}$

$2 \frac{12}{100} = \frac{212}{100}$. Convert whole parts before combining or regrouping.



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

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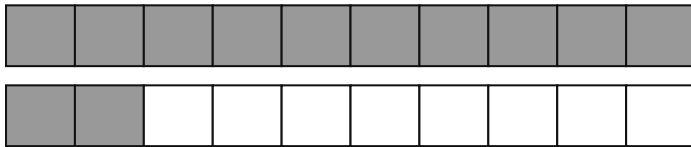
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3. Find $1\frac{2}{10} + 1\frac{6}{10}$.

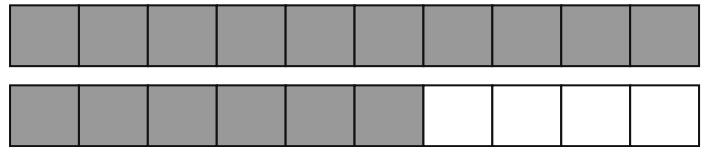
$\frac{14}{5}$

$$1\frac{2}{10} + 1\frac{6}{10} = \frac{12}{10} + \frac{16}{10} = \frac{14}{5} = 2\frac{4}{5}.$$

$1\frac{2}{10}$



$1\frac{6}{10}$



4. Find $2\frac{37}{100} - \frac{97}{100}$.

$\frac{7}{5}$

$$2\frac{37}{100} - \frac{97}{100} = \frac{237}{100} - \frac{97}{100} = \frac{7}{5} = 1\frac{2}{5}.$$

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5. Find $1 \frac{2}{4} - \frac{2}{4}$.

1

$$1 \frac{2}{4} - \frac{2}{4} = \frac{6}{4} - \frac{2}{4} = 1.$$

6. Find $1 \frac{2}{4} - 1 \frac{1}{4}$. Which reason would help you solve this correctly?

The pieces have the same size. Subtract their counts and keep denominator 4.

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7. A jug holds $1 \frac{1}{4}$ liters. You pour out $\frac{1}{4}$ liters. How many liters remain?

1

$1 \frac{1}{4} - \frac{1}{4} = \frac{5}{4} - \frac{1}{4} = 1$. The answer is in liters.

8. Find $\frac{3}{6} - \frac{2}{6}$.

$\frac{1}{6}$

$\frac{3}{6} - \frac{2}{6} = \frac{3}{6} - \frac{2}{6} = \frac{1}{6}$.