

Mixed numbers with like denominators

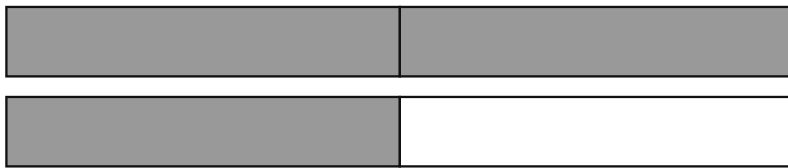
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Use the explanations to discuss the idea. A worked answer is one example; equivalent answers may also be valid.

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

$\frac{3}{2}$

$1\frac{1}{2} = \frac{3}{2}$. Convert whole parts before combining or regrouping.



2. Find $1\frac{87}{100} + \frac{24}{100}$.

$\frac{211}{100}$

$1\frac{87}{100} + \frac{24}{100} = \frac{187}{100} + \frac{24}{100} = \frac{211}{100} = 2\frac{11}{100}$.

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3. Find $1 \frac{2}{4} + 1 \frac{2}{4}$.

3

$$1 \frac{2}{4} + 1 \frac{2}{4} = \frac{6}{4} + \frac{6}{4} = 3 = 3.$$

4. Find $2 \frac{1}{5} - \frac{3}{5}$. Which reason would help you solve this correctly?

The pieces have the same size. Subtract their counts and keep denominator 5.

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5. A jug has $1 \frac{4}{5}$ liters of water. Another $1 \frac{4}{5}$ liters are poured in. How many liters are there now?

$\frac{18}{5}$

$1 \frac{4}{5} + 1 \frac{4}{5} = \frac{9}{5} + \frac{9}{5} = \frac{18}{5} = 3 \frac{3}{5}$. The answer is in liters.

6. A jug has $2 \frac{3}{5}$ liters of water. Another $\frac{1}{5}$ liters are poured in. How many liters are there now?

$\frac{14}{5}$

$2 \frac{3}{5} + \frac{1}{5} = \frac{13}{5} + \frac{1}{5} = \frac{14}{5} = 2 \frac{4}{5}$. The answer is in liters.

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7. Write 1 as a fraction with denominator 1.

1/1

$1 \times 1 = 1$ parts, so $1 = 1/1$.

8. Find $10/12 + 6/12$.

4/3

$10/12 + 6/12 = 10/12 + 6/12 = 4/3 = 1 \frac{1}{3}$.