

Add and subtract fractions • Lesson B

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

1. Find $59/100 + 30/100$.

$89/100$

$$59/100 + 30/100 = 59/100 + 30/100 = 89/100.$$

2. Find $1\ 71/100 + 1\ 38/100$.

$309/100$

$$1\ 71/100 + 1\ 38/100 = 171/100 + 138/100 = 309/100 = 3\ 9/100.$$

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3. Is $\frac{1}{4} - \frac{1}{10}$ less than, equal to, or greater than $\frac{1}{2}$? 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.

4. Find $\frac{1}{2} - \frac{3}{10}$.

$\frac{1}{5}$

$$\frac{1}{2} - \frac{3}{10} = \frac{5}{10} - \frac{3}{10} = \frac{1}{5}.$$

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5. Find $1 \frac{5}{10} - \frac{2}{6}$.

$\frac{7}{6}$

$$1 \frac{5}{10} - \frac{2}{6} = \frac{45}{30} - \frac{10}{30} = \frac{7}{6} = 1 \frac{1}{6}.$$

6. Find $1 \frac{3}{5} + 1 \frac{8}{10}$.

$\frac{17}{5}$

$$1 \frac{3}{5} + 1 \frac{8}{10} = \frac{16}{10} + \frac{18}{10} = \frac{17}{5} = 3 \frac{2}{5}.$$

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7. A jug has $1\frac{7}{8}$ liters of water. Another $1\frac{5}{10}$ liters are poured in. How many liters are there now?

$\frac{27}{8}$

$1\frac{7}{8} + 1\frac{5}{10} = \frac{75}{40} + \frac{60}{40} = \frac{27}{8} = 3\frac{3}{8}$. The answer is in liters.

8. A jug has $1\frac{2}{6}$ liters of water. Another $1\frac{5}{10}$ liters are poured in. How many liters are there now?

$\frac{17}{6}$

$1\frac{2}{6} + 1\frac{5}{10} = \frac{40}{30} + \frac{45}{30} = \frac{17}{6} = 2\frac{5}{6}$. The answer is in liters.