

Add and subtract like 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. Find $8/12 + 6/12$.

$7/6$

$$8/12 + 6/12 = 8/12 + 6/12 = 7/6 = 1 \frac{1}{6}.$$

$8/12$



$6/12$



2. Find $4/5 + 2/5$.

$6/5$

$$4/5 + 2/5 = 4/5 + 2/5 = 6/5 = 1 \frac{1}{5}.$$

$4/5$



$2/5$



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3. Find $5/8 - 4/8$.

$1/8$

$$5/8 - 4/8 = 5/8 - 4/8 = 1/8.$$

$5/8$



$4/8$



4. Find $75/100 + 92/100$.

$167/100$

$$75/100 + 92/100 = 75/100 + 92/100 = 167/100 = 1 \frac{67}{100}.$$

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5. Find $5/10 - 4/10$.

$1/10$

$$5/10 - 4/10 = 5/10 - 4/10 = 1/10.$$

6. Find $2/8 - 2/8$. Which reason would help you solve this correctly?

The pieces have the same size. Subtract their counts and keep denominator 8.

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7. A jug holds $\frac{6}{8}$ liters. You pour out $\frac{6}{8}$ liters. How many liters remain?

0

$\frac{6}{8} - \frac{6}{8} = \frac{6}{8} - \frac{6}{8} = 0$. The answer is in liters.

8. Write $\frac{8}{10}$ as a sum of two positive fractions with denominator 10.

$\frac{1}{10} + \frac{7}{10}$ (other positive sums with denominator 10 are valid)

One possible sum is $\frac{1}{10} + \frac{7}{10}$. Any two positive numerators totaling 8, each over 10, work; either order is valid.