

Add and subtract unlike 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 $\frac{1}{2} + \frac{5}{6}$.

$\frac{4}{3}$

$$\frac{1}{2} + \frac{5}{6} = \frac{3}{6} + \frac{5}{6} = \frac{4}{3} = 1 \frac{1}{3}.$$

$\frac{1}{2}$



$\frac{5}{6}$



2. Find $\frac{2}{8} - \frac{1}{4}$.

0

$$\frac{2}{8} - \frac{1}{4} = \frac{2}{8} - \frac{2}{8} = 0.$$

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3. Find $\frac{1}{9} + \frac{1}{5}$.

$\frac{14}{45}$

$$\frac{1}{9} + \frac{1}{5} = \frac{5}{45} + \frac{9}{45} = \frac{14}{45}.$$

4. Find $\frac{6}{12} - \frac{1}{10}$. Which reason would help you solve this correctly?

Use denominator 60. Rename both fractions before subtracting.

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5. A jug holds $\frac{1}{2}$ liters. You pour out $\frac{1}{12}$ liters. How many liters remain?

$\frac{5}{12}$

$\frac{1}{2} - \frac{1}{12} = \frac{6}{12} - \frac{1}{12} = \frac{5}{12}$. The answer is in liters.

6. A path has a $\frac{8}{10}$ -meter section followed by a $\frac{2}{6}$ -meter section. How many meters long is the path?

$\frac{17}{15}$

$\frac{8}{10} + \frac{2}{6} = \frac{24}{30} + \frac{10}{30} = \frac{17}{15} = 1 \frac{2}{15}$. The answer is in meters.

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7. Find $11/12 - 9/12$.

$1/6$

$$11/12 - 9/12 = 11/12 - 9/12 = 1/6.$$

8. Is $5/7 - 5/8$ less than, equal to, or greater than $1/2$?

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$$5/7 - 5/8 = 40/56 - 35/56 = 5/56. \text{ This is less than } 1/2.$$