

Mixed numbers with unlike denominators

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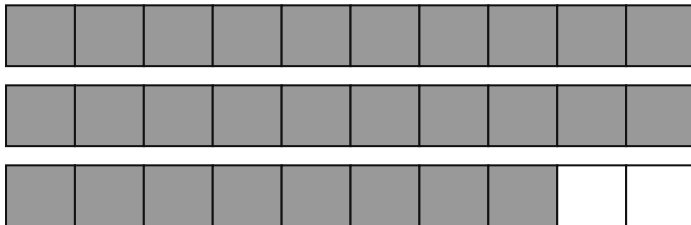
Use the explanations to discuss the idea. A worked answer is one example; equivalent answers may also be valid.

1. Find $2 \frac{8}{10} - 1 \frac{1}{2}$.

$\frac{13}{10}$

$$2 \frac{8}{10} - 1 \frac{1}{2} = \frac{28}{10} - \frac{15}{10} = \frac{13}{10} = 1 \frac{3}{10}.$$

$2 \frac{8}{10}$



$1 \frac{1}{2}$

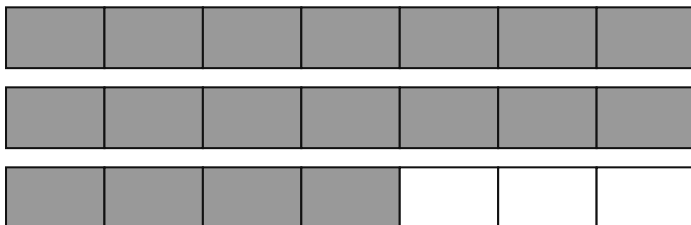


2. Find $2 \frac{4}{7} - 1 \frac{5}{8}$.

$\frac{53}{56}$

$$2 \frac{4}{7} - 1 \frac{5}{8} = \frac{144}{56} - \frac{91}{56} = \frac{53}{56}.$$

$2 \frac{4}{7}$



$1 \frac{5}{8}$



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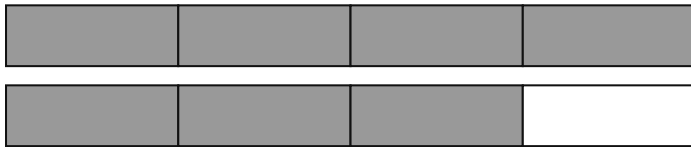
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3. Find $1 \frac{3}{4} + \frac{5}{7}$.

$\frac{69}{28}$

$$1 \frac{3}{4} + \frac{5}{7} = \frac{49}{28} + \frac{20}{28} = \frac{69}{28} = 2 \frac{13}{28}.$$

$1 \frac{3}{4}$



$\frac{5}{7}$



4. Find $1 \frac{10}{12} - 1 \frac{5}{9}$.

$\frac{5}{18}$

$$1 \frac{10}{12} - 1 \frac{5}{9} = \frac{66}{36} - \frac{56}{36} = \frac{5}{18}.$$

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5. Find $2 \frac{1}{2} + 1 \frac{4}{11}$.

$\frac{85}{22}$

$$2 \frac{1}{2} + 1 \frac{4}{11} = \frac{55}{22} + \frac{30}{22} = \frac{85}{22} = 3 \frac{19}{22}.$$

6. Find $2 \frac{6}{8} + 1 \frac{1}{7}$. Which reason would help you solve this correctly?

Use denominator 56. Rename both fractions before adding.

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7. A ribbon is $1 \frac{1}{2}$ meters long. You cut off $\frac{2}{12}$ meters. How many meters remain?

$\frac{4}{3}$

$1 \frac{1}{2} - \frac{2}{12} = \frac{18}{12} - \frac{2}{12} = \frac{4}{3} = 1 \frac{1}{3}$. The answer is in meters.

8. Find $\frac{2}{5} - \frac{2}{11}$.

$\frac{12}{55}$

$\frac{2}{5} - \frac{2}{11} = \frac{22}{55} - \frac{10}{55} = \frac{12}{55}$.