## Add and Subtract Fractions

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1a. Mel is finding the missing numerator in the following calculation:

$$
\frac{\square}{7}+\frac{4}{7}=\frac{6}{7}
$$

$\square$


I think the missing numerator must be 10 .

Is she correct? Explain why.
D
2a. Complete the fractions to make the calculation correct.

$\square$

Find two possibilities.
Use the bar model to help you.
W
3a. Arrange the digit cards to create an addition question.


4


8

You can use the cards more than once.


1b. Ian is finding the missing numerator in the following calculation:

$$
\frac{2}{8}+\frac{\square}{8}=\frac{8}{8}
$$

$\square$


Is he correct? Explain why.
回
2b. Complete the fractions to make the calculation correct.


Find two possibilities.
Use the bar model to help you.

## W

3b. Arrange the digit cards to create a subtraction question.


You can use the cards more than once.


## Add and Subtract Fractions

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4a. Sara is finding the missing numerator in the following calculation:

$$
\frac{15}{9}-\frac{\square}{9}=\frac{5}{9}
$$




I think the missing numerator must be 4.

Is she correct? Explain why.

5a. Complete the fractions to make the calculation correct.


Find two possibilities. Use the bar model to help you.

6a. Arrange the digit cards to create an addition question.


You can use the cards more than once.

4b. Ted is finding the missing numerator in the following calculation:

$$
\frac{\square}{7}+\frac{6}{7}=1 \frac{4}{7}
$$



Is he correct? Explain why.

5b. Complete the fractions to make the calculation correct.


Find two possibilities.
Use the bar model to help you.

6b. Arrange the digit cards to create a subtraction question.


You can use the cards more than once.

## Add and Subtract Fractions

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7a. Asha is finding the missing numerator in the following calculation:

$$
\frac{18}{12}-\frac{\square}{12}=1 \frac{1}{4}
$$



Is she correct? Explain why.

8a. Complete the fractions to make the calculation correct.


Find two possibilities.

9a. Arrange the digit cards to create an addition question.


You can use two cards twice.

7b. Ivor is finding the missing numerator in the following calculation:

$$
\frac{\square}{8}+\frac{7}{8}=1 \frac{1}{2}
$$



Is he correct? Explain why.

8b. Complete the fractions to make the calculation correct.


Find two possibilities.

9b. Arrange the digit cards to create a subtraction question.


You can use two cards twice.
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## Reasoning and Problem Solving Add and Subtract Fractions

## Developing

1a. Mel is incorrect as the missing numerator is 2.

2a. Various answers where the numerator totals 5, for example: $\frac{2}{6}+\frac{3}{6}=\frac{5}{6}$.
3a. $\frac{3}{8}+\frac{4}{8}=\frac{7}{8}$ or $\frac{4}{8}+\frac{3}{8}=\frac{7}{8}$

## Expected

4a. Sara is incorrect as the missing numerator is 10.

5a. Various answers where the numerators give an answer of 7 , for example:
$\frac{9}{5}-\frac{2}{5}=1 \frac{2}{5}$.
6a. $\frac{8}{9}+\frac{3}{9}=1 \frac{2}{9}$

## Greater Depth

7a. Asha is incorrect. The missing
numerator is 3 because $\frac{18}{12}-\frac{3}{12}=1 \frac{3}{12}$ and $1 \frac{3}{12}=1 \frac{1}{4}$.
8a. Various answers where the numerators total 12, for example: $\frac{5}{9}+\frac{7}{9}=1 \frac{1}{3}$. 9a. $\frac{12}{15}+\frac{8}{15}=1 \frac{1}{3}$

## Reasoning and Problem Solving Add and Subtract Fractions

## Developing

1b. Ian is correct because $\frac{2}{8}+\frac{6}{8}=\frac{8}{8}$. 2b. Various answers where the numerators give an answer of 2 . for example:
$\frac{4}{9}-\frac{2}{9}=\frac{2}{9}$.
3b. $\frac{5}{6}-\frac{1}{6}=\frac{4}{6}$ or $\frac{5}{6}-\frac{4}{6}=\frac{1}{6}$

## Expected

4b. Ted is incorrect as the missing numerator is 5 .

5b. Various answers where the numerators total 11, for example: $\frac{4}{6}+\frac{7}{6}=1 \frac{5}{6}$. 6b. $1 \frac{3}{6}-\frac{4}{6}=\frac{5}{6}$ or $1 \frac{3}{6}-\frac{5}{6}=\frac{4}{6}$

## Greater Depth

7b. Ivor is correct. The numerators must total 12 because $\frac{12}{8}=1 \frac{1}{2}$.
8b. Various answers where the numerators total 18, for example: $\frac{10}{12}+\frac{8}{12}=1 \frac{1}{2}$.
9b. $1 \frac{3}{8}-\frac{9}{8}=\frac{1}{4}$

