

Add 2 or More Fractions

1a. Use the digit cards to complete the calculations so that they equal $\frac{10}{12}$.

A. $\frac{3}{12} + \frac{5}{12} + \frac{\boxed{}}{12}$ 3

B. $\frac{\boxed{}}{12} + \frac{6}{\boxed{}} + \frac{1}{12}$ 2

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PS

Add 2 or More Fractions

1b. Use the digit cards to complete the calculations so that they equal $\frac{14}{15}$.

A. $\frac{7}{15} + \frac{\boxed{}}{\boxed{}} + \frac{2}{15}$ 3

B. $\frac{6}{15} + \frac{\boxed{}}{15} + \frac{5}{15}$ 5

15

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PS

2a. Using at least two of the fraction cards, create an addition calculation to equal the target fraction.

$\frac{2}{9}$

$\frac{5}{9}$

$\frac{3}{9}$

$\frac{4}{9}$



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PS

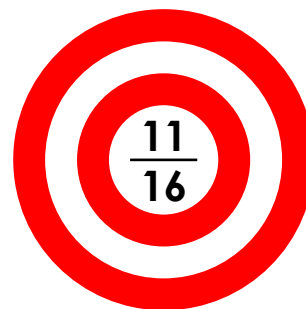
2b. Using at least two of the fraction cards, create an addition calculation to equal the target fraction.

$\frac{7}{16}$

$\frac{1}{16}$

$\frac{4}{16}$

$\frac{3}{16}$



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PS

3a. Steph and Jake are finding missing numbers in a calculation.

$\frac{4}{10} + \frac{3}{10} + \frac{2}{10} = \frac{\boxed{}}{\boxed{}}$



Steph

I think the answer is $\frac{9}{30}$.

I think the answer is $\frac{9}{10}$.



Jake

Who is correct? Explain how you know.



R

3b. Sinead and Johnny are finding missing numbers in a calculation.

$\frac{7}{20} + \frac{5}{20} + \frac{\boxed{}}{\boxed{}} = \frac{19}{20}$



Sinead

The missing fraction is $\frac{7}{20}$.

The missing fraction is $\frac{7}{40}$.



Johnny

Who is correct? Explain how you know.



R

Add 2 or More Fractions

4a. Use the digit cards to complete the calculations so that they equal $\frac{15}{7}$.

A. $\frac{\square}{7} + \frac{5}{7} + \frac{\square}{7}$

B. $\frac{\square}{7} + \frac{\square}{7} + \frac{\square}{7}$

3

2

4

9

7



PS

Add 2 or More Fractions

4b. Use the digit cards to complete the calculations so that they equal $\frac{21}{11}$.

A. $\frac{\square}{11} + \frac{5}{\square} + \frac{\square}{11}$

B. $\frac{9}{11} + \frac{\square}{11} + \frac{\square}{11}$

5

11

12

7

4



PS

5a. Using at least two of the fraction cards, create two addition calculations to equal the target fraction.

$\frac{8}{5}$

$\frac{6}{5}$

$\frac{10}{5}$

$\frac{2}{5}$



PS

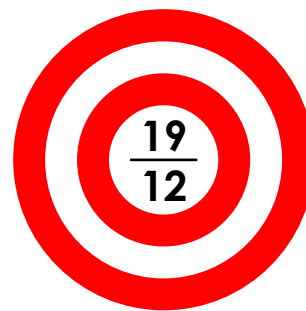
5b. Using at least two of the fraction cards, create two addition calculations to equal the target fraction.

$\frac{11}{12}$

$\frac{5}{12}$

$\frac{3}{12}$

$\frac{8}{12}$



PS

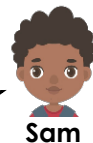
6a. Chuan and Sam are finding missing numbers in a calculation.

$\frac{3}{7} + \frac{\square}{7} + \frac{\square}{7} = \frac{12}{7}$



$\frac{5}{7}$ and $\frac{4}{7}$ are missing.

$\frac{6}{7}$ and $\frac{3}{7}$ are missing.



Who is correct? Explain how you know.



R

6b. Hafsa and Cian are finding missing numbers in a calculation.

$\frac{\square}{10} + \frac{3}{10} + \frac{\square}{10} = \frac{15}{10}$



$\frac{5}{10}$ and $\frac{7}{10}$ are missing.

$\frac{6}{10}$ and $\frac{7}{10}$ are missing.



Who is correct? Explain how you know.



R

Add 2 or More Fractions

7a. Use the digit cards to complete the calculations so that they equal $\frac{22}{12}$.

A. $\frac{2}{3} + \frac{4}{6} + \frac{\square}{6}$

B. $\frac{14}{\square} + \frac{\square}{3} + \frac{\square}{6}$

1 7 2 5 9 3 12



PS

Add 2 or More Fractions

7b. Use the digit cards to complete the calculations so that they equal $2\frac{6}{8}$.

A. $\frac{\square}{8} + \frac{5}{4} + \frac{10}{\square}$

B. $\frac{10}{\square} + \frac{3}{4} + \frac{\square}{8}$

9 16 2 11 15 8 7



PS

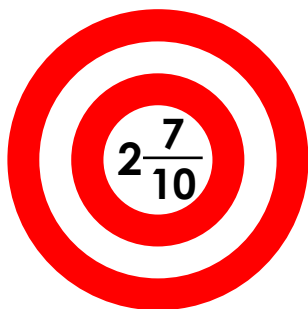
8a. Using at least two of the fraction cards, create two addition calculations to equal the target fraction.

$\frac{30}{20}$

$\frac{2}{20}$

$\frac{6}{5}$

$\frac{7}{5}$



PS

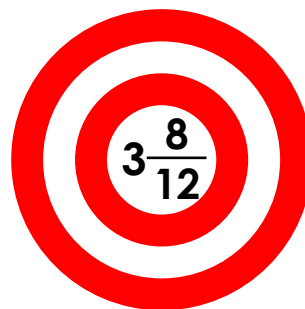
8b. Using at least two of the fraction cards, create two addition calculations to equal the target fraction.

$\frac{15}{6}$

$\frac{28}{24}$

$\frac{10}{12}$

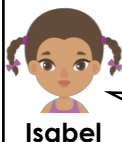
$\frac{2}{6}$



PS

9a. Isabel and Hannah are finding missing numbers in a calculation.

$\frac{4}{7} + \frac{\square}{14} + \frac{\square}{7} = 2\frac{6}{7}$



Isabel

$\frac{10}{14}$ and $\frac{6}{7}$ are missing.

$\frac{24}{14}$ and $\frac{4}{7}$ are missing.



Hannah

Who is correct? Explain how you know.



R

9b. Josh and Kelly are finding missing numbers in a calculation.

$\frac{\square}{16} + \frac{28}{32} + \frac{8}{\square} = \frac{35}{16}$



Josh

$\frac{5}{16}$ and $\frac{8}{8}$ are missing.

$\frac{13}{16}$ and $\frac{8}{16}$ are missing.



Kelly

Who is correct? Explain how you know.



R

Reasoning and Problem Solving Add 2 or More Fractions

Developing

1a. A. $\frac{3}{12} + \frac{5}{12} + \frac{2}{12}$

B. $\frac{3}{12} + \frac{6}{12} + \frac{1}{12}$

2a. $\frac{2}{9} + \frac{5}{9}$ or $\frac{3}{9} + \frac{4}{9}$

3a. Jake is correct because Steph has added the denominators as well as the numerators.

Expected

4a. A. $\frac{7}{7} + \frac{5}{7} + \frac{3}{7}$

B. $\frac{2}{7} + \frac{4}{7} + \frac{9}{7}$

5a. $\frac{10}{5} + \frac{6}{5} + \frac{2}{5}$ and $\frac{10}{5} + \frac{8}{5}$

6a. They are both correct because both calculations add up to $\frac{12}{7}$.

Greater Depth

7a. A. $\frac{2}{3} + \frac{4}{6} + \frac{3}{6}$

B. $\frac{14}{12} + \frac{1}{3} + \frac{2}{6}$

8a. $\frac{6}{5} + \frac{7}{5} + \frac{2}{20}$ and $\frac{6}{5} + \frac{30}{20}$

9a. Hannah is correct because Isabel's calculation will equal $\frac{15}{7}$.

Reasoning and Problem Solving Add 2 or More Fractions

Developing

1b. A. $\frac{7}{15} + \frac{5}{15} + \frac{2}{15}$

B. $\frac{6}{15} + \frac{3}{15} + \frac{5}{15}$

2b. $\frac{7}{16} + \frac{4}{16}$ or $\frac{1}{16} + \frac{3}{16} + \frac{7}{16}$

3b. Sinead is correct because she has added only the numerators.

Expected

4b. A. $\frac{4}{11} + \frac{5}{11} + \frac{12}{11}$

B. $\frac{9}{11} + \frac{7}{11} + \frac{5}{11}$

5b. $\frac{11}{12} + \frac{8}{12}$ and $\frac{3}{12} + \frac{5}{12} + \frac{11}{12}$

6b. Hafsa is correct because Cian's calculation adds up to $\frac{16}{10}$.

Greater Depth

7b. A. $\frac{2}{8} + \frac{5}{4} + \frac{10}{8}$

B. $\frac{10}{16} + \frac{3}{4} + \frac{11}{16}$

8b. $\frac{28}{24} + \frac{15}{6}$ and $\frac{10}{12} + \frac{2}{6} + \frac{15}{6}$

9b. Both Josh and Kelly are correct because each calculation has a total of $\frac{35}{16}$ once they are converted.