

Add 3 or More Fractions

5a. Group the equivalent fractions.

$$\frac{2}{7} \quad \frac{1}{7} \quad \frac{4}{7}$$

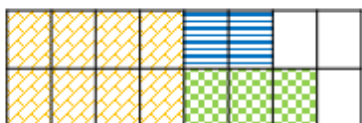
$$\frac{8}{56} \quad \frac{6}{21} \quad \frac{16}{28}$$



S VF

6a. True or false? Use the bar model to help you.

$$\frac{1}{2} + \frac{3}{16} + \frac{1}{8} = \frac{12}{16}$$



S VF

7a. Complete the calculation.

$$\frac{2}{9} + \frac{1}{3} + \frac{3}{18} = \frac{\square}{\square}$$



S VF

8a. Match the calculations to the correct answers.

A) $\frac{2}{4} + \frac{2}{16} + \frac{1}{8} =$ $\frac{12}{16}$

B) $\frac{2}{12} + \frac{1}{3} + \frac{2}{6} =$ $\frac{11}{16}$

$\frac{2}{12} + \frac{1}{3} + \frac{2}{6} =$ $\frac{10}{12}$



S VF

Add 3 or More Fractions

4a. Sue and Joe are adding 3 different fractions. Sue thinks her answer will be the biggest fraction.



Sue

$$\frac{2}{20} + \frac{3}{10} + \frac{1}{5}$$

$$\frac{6}{20} + \frac{1}{10} + \frac{2}{5}$$



Joe

Is she correct? Explain why.



S R

5a. Use the clues below to work out which 3 fractions add together to total $\frac{14}{18}$.

- One of the denominators is 18. Another is half of this.
- One of the denominators is a third of 9.
- No numerator is greater than 4.
- Two of the numerators are even and one is half the size of the other.



S PS

6a. Priya has added three fractions based on the bar models below.



$$\frac{1}{2} + \frac{2}{16} + \frac{1}{4} = \frac{14}{22}$$

Is she correct? Prove it.



S R

3 stars

Add 3 or More Fractions

9a. Group the equivalent fractions.

$$\frac{3}{11} \quad \frac{5}{8} \quad \frac{4}{6}$$

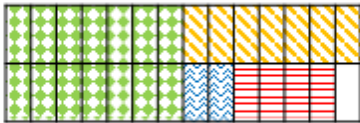
$$\frac{32}{48} \quad \frac{21}{77} \quad \frac{45}{72}$$



S VF

10a. True or false? Use the bar model to help you.

$$\frac{1}{2} + \frac{2}{28} + \frac{1}{4} + \frac{1}{7} = \frac{27}{28}$$



S VF

11a. Complete the calculation.

$$\frac{1}{3} + \frac{6}{30} + \frac{1}{15} + \frac{3}{10} = \frac{\boxed{}}{\boxed{}}$$



S VF

12a. Match the calculations to the correct answers.

A) $\frac{5}{24} + \frac{3}{6} + \frac{1}{4} =$ $\frac{16}{24}$

B) $\frac{1}{4} + \frac{1}{3} + \frac{2}{24} =$ $\frac{20}{24}$

$\frac{1}{4} + \frac{1}{3} + \frac{2}{24} =$ $\frac{23}{24}$



S VF

Add 3 or More Fractions

7a. Jen and Todd are adding 3 different fractions. Jen thinks her answer will be the biggest fraction.



Jen

$$\frac{1}{7} + \frac{3}{28} + \frac{1}{4}$$

$$\frac{1}{14} + \frac{2}{7} + \frac{1}{2}$$



Todd

Is she correct? Explain why.



S R

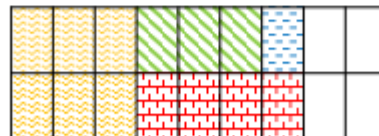
8a. Use the clues below to work out which 3 fractions add together to total $\frac{25}{36}$.

- One denominator is 36. Two of the denominators are less than 10 but greater than 5.
- The denominators are all different and are factors of 36.
- One of the numerators is 2.
- The other two numerators are odd.



S PS

9a. Rita has added four fractions based on the bar model below.



$$\frac{1}{6} + \frac{1}{3} + \frac{1}{18} + \frac{2}{9} = \frac{5}{18}$$

Is she correct? Prove it.



S R

Answers

Step 11, 2 stars Varied Fluency	Step 11, 2 stars Reasoning
<p>5a. $\frac{1}{7} = \frac{8}{56}$, $\frac{2}{7} = \frac{6}{21}$, $\frac{4}{7} = \frac{16}{28}$</p> <p>6a. False. The correct answer is $\frac{13}{16}$.</p> <p>7a. $\frac{13}{18}$</p> <p>8a. A) $\frac{12}{16}$ B) $\frac{10}{12}$</p>	<p>4a. No. Joe has $\frac{16}{20}$ which is more than $\frac{12}{20}$.</p> <p>5a. $\frac{4}{18} + \frac{2}{9} + \frac{1}{3} = \frac{14}{18}$</p> <p>6a. Priya is incorrect as she has added the denominators. The correct answer is $\frac{14}{16}$.</p>
Step 11, 3 stars Varied Fluency	Step 11, 3 stars Reasoning
<p>9a. $\frac{3}{11} = \frac{21}{77}$, $\frac{5}{8} = \frac{45}{72}$, $\frac{32}{48} = \frac{4}{6}$</p> <p>10a. True</p> <p>11a. $\frac{27}{30}$</p> <p>12a. A) $\frac{23}{24}$ B) $\frac{16}{24}$</p>	<p>7b. Kai is correct as $\frac{10}{12}$ is more than $\frac{13}{24}$.</p> <p>8b. $\frac{2}{30} + \frac{4}{10} + \frac{2}{5} = \frac{26}{30}$</p> <p>9b. Noel is incorrect as he has added the denominators. The correct answer is $\frac{20}{42}$.</p>