

Varied Fluency

Step 6: Add Fractions

National Curriculum Objectives:

Mathematics Year 3: (3F4) [Add and subtract fractions with the same denominator within one whole \[for example, \$5/7 + 1/7 = 6/7\$ \]](#)

Mathematics Year 3: (3F10) [Solve problems that involve the above objectives](#)

Differentiation:

Developing Questions to support adding two fractions where the denominator is less than 10.

Expected Questions to support adding up to three fractions where the denominator is less than 12.

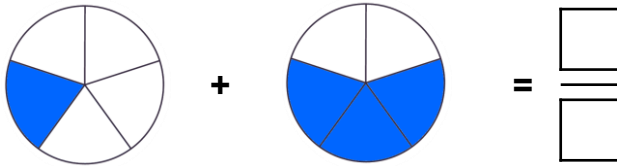
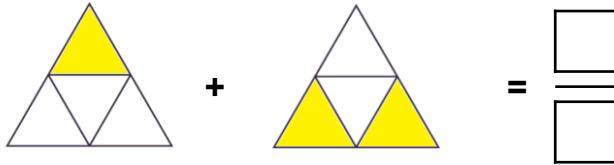
Greater Depth Questions to support adding up to three fractions where the denominator is less than 12 when in its simplest form (where one equivalent fraction needs simplifying).

More [Year 3 Fractions](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Add Fractions

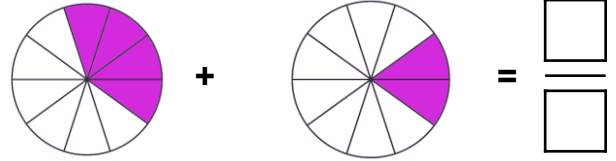
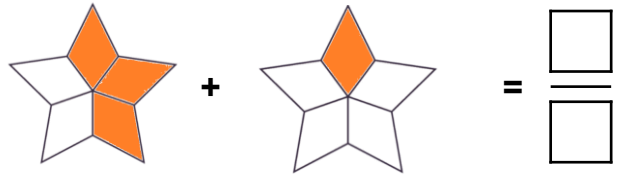
1a. Complete these equations.



VF

Add Fractions

1b. Complete these equations.



VF

2a. Complete this equation.

$$\frac{1}{8} + \frac{\square}{8} = \frac{5}{\square}$$



VF

2b. Complete this equation.

$$\frac{2}{\square} + \frac{\square}{5} = \frac{4}{5}$$



VF

3a. True or false?

$$\frac{3}{7} + \frac{1}{7} = \frac{4}{14}$$



VF

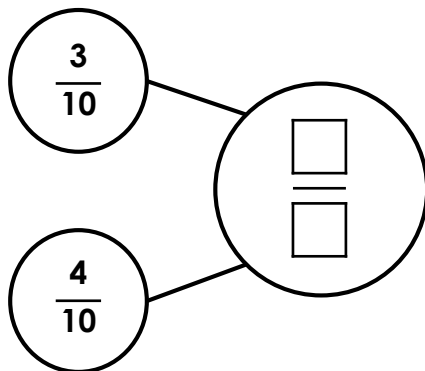
3b. True or false?

$$\frac{6}{9} + \frac{2}{9} = \frac{8}{9}$$



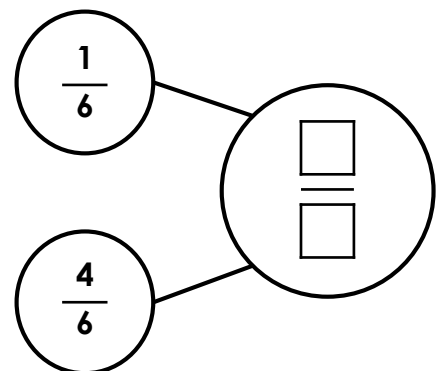
VF

4a. Complete this part whole model.



VF

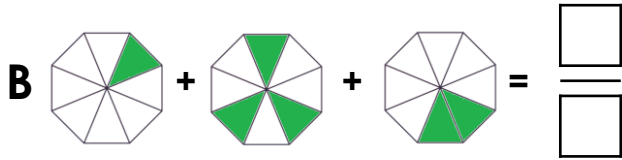
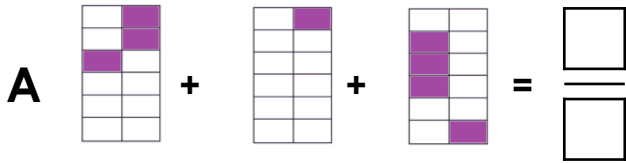
4b. Complete this part whole model.



VF

Add Fractions

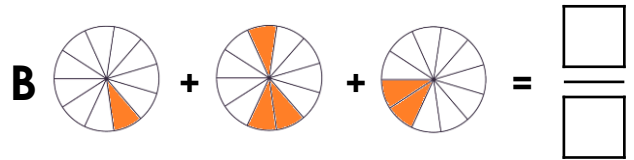
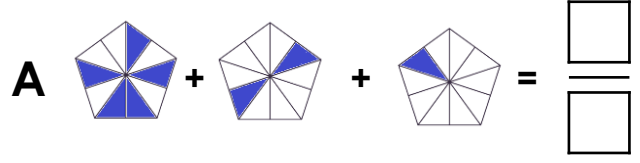
5a. Complete these equations.



VF

Add Fractions

5b. Complete these equations.



VF

6a. Complete this equation.

$$\frac{2}{9} + \frac{1}{\square} + \frac{\square}{9} = \frac{7}{9}$$



VF

6b. Complete this equation.

$$\frac{\square}{11} + \frac{5}{\square} + \frac{2}{11} = \frac{8}{11}$$



VF

7a. True or false?

$$\frac{3}{5} + \frac{1}{5} + \frac{1}{5} = \frac{5}{5}$$



VF

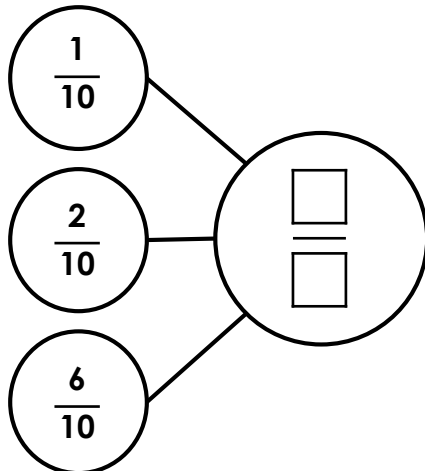
7b. True or false?

$$\frac{3}{8} + \frac{1}{8} + \frac{2}{8} = \frac{7}{8}$$



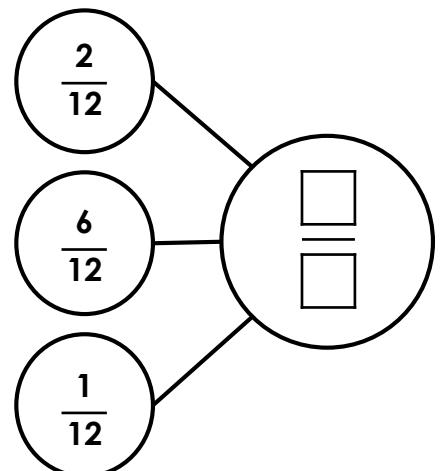
VF

8a. Complete this part whole model.



VF


8b. Complete this part whole model.

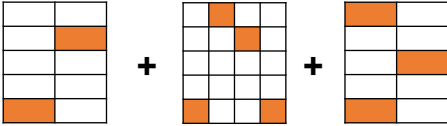


VF

Add Fractions

9a. Complete these equations.

A  = $\frac{\square}{4}$


B  = $\frac{\square}{10}$




VF

Add Fractions

9b. Complete these equations.

A  = $\frac{\square}{7}$

B  = $\frac{\square}{7}$



VF

10a. Complete this equation.

$$\frac{5}{12} + \frac{1}{12} + \frac{8}{24} = \frac{\square}{12}$$



VF

10b. Complete this equation.

$$\frac{1}{8} + \frac{3}{8} + \frac{8}{32} = \frac{\square}{8}$$



VF

11a. True or false?

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



VF

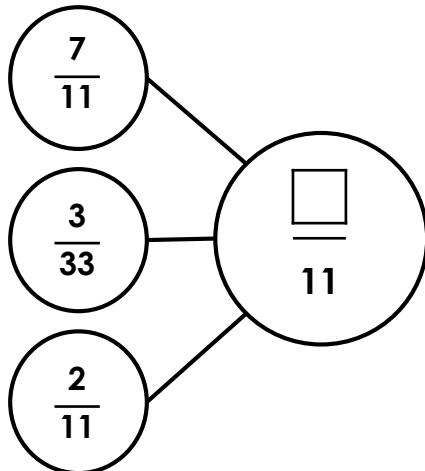
11b. True or false?

$$\frac{2}{5} + \frac{1}{5} + \frac{8}{20} = \frac{5}{5}$$



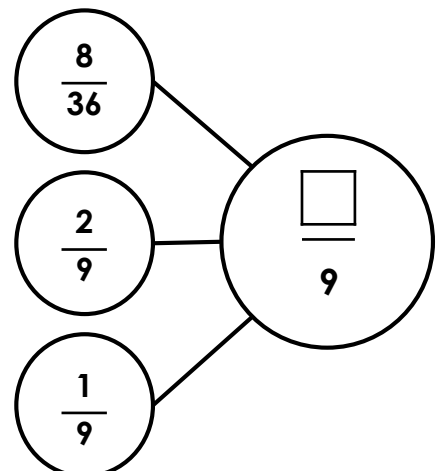
VF

12a. Complete this part whole model.



VF

12b. Complete this part whole model.



VF

Varied Fluency Add Fractions

Developing

1a. $A = \frac{3}{4}$, $B = \frac{4}{5}$

2a. $\frac{1}{8} + \frac{\boxed{4}}{8} = \frac{5}{\boxed{8}}$

3a. **False; answer should be $\frac{4}{7}$**

4a. $\frac{7}{10}$

Expected

5a. $A = \frac{8}{12}$, $B = \frac{6}{8}$

6a. $\frac{2}{9} + \frac{1}{\boxed{9}} + \frac{\boxed{4}}{9} = \frac{7}{9}$

7a. **True**

8a. $\frac{9}{10}$

Greater Depth

9a. $A = 3$, $B = 7$

10a. **10**

11a. **False; it is $\frac{6}{10}$**

12a. **10**

Varied Fluency Add Fractions

Developing

1b. $A = \frac{4}{5}$, $B = \frac{6}{10}$

2b. $\frac{2}{\boxed{5}} + \frac{\boxed{2}}{5} = \frac{4}{5}$

3b. **True**

4b. $\frac{5}{6}$

Expected

5b. $A = \frac{8}{10}$, $B = \frac{6}{11}$

6b. $\frac{\boxed{1}}{11} + \frac{5}{\boxed{11}} + \frac{2}{11} = \frac{8}{11}$

7b. **False; it should be $\frac{6}{8}$**

8b. $\frac{9}{12}$

Greater Depth

9b. $A = 6$, $B = 6$

10b. **6**

11b. **True**

12b. **5**