

Homework/Extension

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:

Questions 1, 4 and 7 (Varied Fluency)

Developing Use the bar models to complete the fraction number sentence. Fractions with a denominator less than 10, some digits provided.

Expected Use the bar models to complete the fraction number sentence. Fractions with a denominator less than 12.

Greater Depth Use the bar models to complete the fraction number sentence. Three fractions with a denominator less than 12, one which is equivalent.

Questions 2, 5 and 8 (Varied Fluency)

Developing Shade the image to show the total of an addition calculation. Fractions with a denominator less than 10. Image in calculation and answer.

Expected Shade the image to show the total of an addition calculation. Two or three fractions with a denominator less than 12. Image in answer only.

Greater Depth Shade the image to show the total of an addition calculation. Fractions with a denominator less than 12, one which is equivalent. Image in answer only.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Find fraction pairs to identify the correct statement. Fractions with a denominator less than 10. Pictorial support.

Expected Find fraction pairs to identify the correct statement. Fractions with a denominator less than 12.

Greater Depth Find sets of three fractions to identify the correct statement. Fractions with a denominator less than 12.

More [Year 3 Fractions](#) resources.

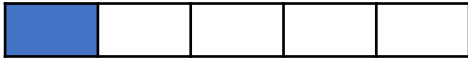
Did you like this resource? Don't forget to [review](#) it on our website.

Add Fractions

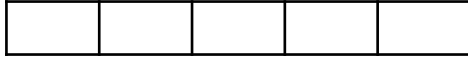
1. Complete the bar model calculations and write down the number sentences underneath.



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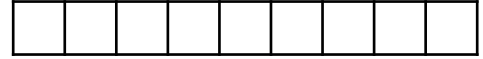
$$\frac{3}{\square} + \frac{\square}{5} = \frac{\square}{\square}$$



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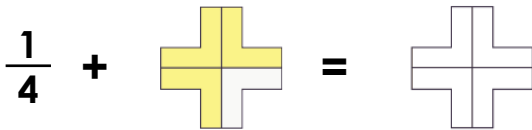
$$\frac{\square}{\square} + \frac{4}{\square} = \frac{\square}{9}$$



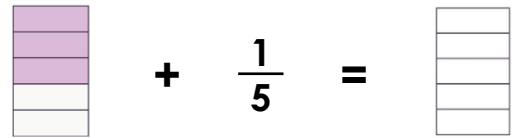
VF
HW/Ext

2. Shade the fraction to complete the addition calculation.

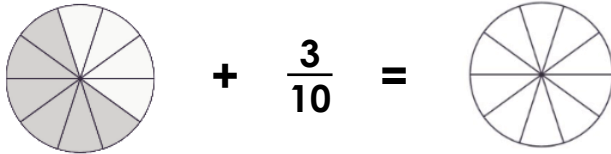
A.



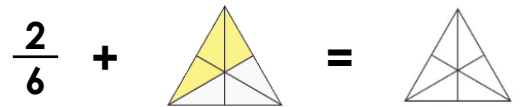
B.



C.



D.



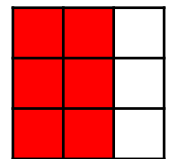
VF
HW/Ext

3. Bob and Fay are both adding fractions.

Bob says,



Adding two fractions, there are three different ways I can make $\frac{6}{9}$.



Fay says,

Adding two fractions, there are two different ways I can make $\frac{6}{9}$.



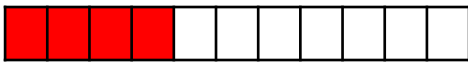
Who is correct? Explain your answer.



RPS
HW/Ext

Add Fractions

4. Complete the bar model calculations and write down the number sentences underneath.



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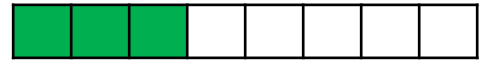
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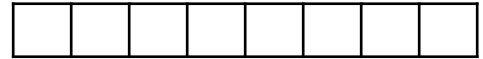
$$\begin{array}{c} \square \\ \square \end{array} + \begin{array}{c} \square \\ \square \end{array} = \begin{array}{c} \square \\ \square \end{array}$$



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$$\begin{array}{c} \square \\ \square \end{array} + \begin{array}{c} \square \\ \square \end{array} = \begin{array}{c} \square \\ \square \end{array}$$



VF
HW/Ext

5. Shade the fraction to complete the addition calculation.

A.

$$\frac{2}{9} + \frac{5}{9} =$$

B.

$$\frac{8}{12} + \frac{1}{12} =$$

C.

$$\frac{3}{11} + \frac{3}{11} + \frac{2}{11} =$$

D.

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



VF
HW/Ext

6. Jill and Dave are both adding fractions.

Jill says,



Adding two fractions, there are three different ways I can make $\frac{8}{11}$.

Dave says,



Adding two fractions, there are four different ways I can make $\frac{8}{11}$.

Who is correct? Explain your answer.



RPS
HW/Ext

Add Fractions

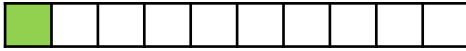
7. Complete the bar model calculations and write down the number sentences underneath.



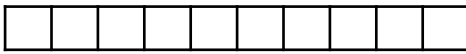
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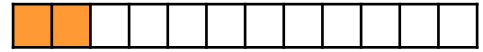
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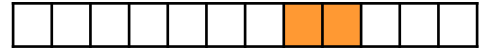
$$\frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$$



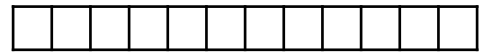
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$$\frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$$



VF
HW/Ext

8. Shade the fraction to complete the addition calculation.

A.

$$\frac{2}{10} + \frac{2}{5} =$$

B.

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

C.

$$\frac{4}{8} + \frac{2}{4} =$$

D.

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



VF
HW/Ext

9. Poppy and Mo are both adding fractions.

Poppy says,



Adding three fractions, there are three different ways I can make $\frac{6}{12}$.

Mo says,



Adding three fractions, there are nine different ways I can make $\frac{6}{12}$.

Who is correct? Explain your answer.



RPS
HW/Ext

Homework/Extension

Add Fractions

Developing

1. 4 parts shaded: $\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$; 7 parts shaded: $\frac{3}{9} + \frac{4}{9} = \frac{7}{9}$

2. A = all 4 parts shaded; B = any 4 parts shaded; C = any 9 parts shaded; D = any 5 parts shaded.

3. Bob is correct: $\frac{5}{9} + \frac{1}{9}$; $\frac{4}{9} + \frac{2}{9}$; $\frac{3}{9} + \frac{3}{9}$

Expected

4. 10 parts shaded: $\frac{4}{11} + \frac{6}{11} = \frac{10}{11}$; 7 parts shaded: $\frac{4}{8} + \frac{3}{8} = \frac{7}{8}$

5. A = any 7 parts shaded; B = any 9 parts shaded; C = any 8 parts shaded; D = any 6 parts shaded.

6. Dave is correct: $\frac{1}{11} + \frac{7}{11}$; $\frac{2}{11} + \frac{6}{11}$; $\frac{3}{11} + \frac{5}{11}$; $\frac{4}{11} + \frac{4}{11}$

Greater Depth

7. 10 parts shaded: $\frac{1}{2} + \frac{4}{10} + \frac{1}{10} = \frac{10}{10}$; 8 parts shaded: $\frac{1}{3} + \frac{2}{12} + \frac{2}{12} = \frac{8}{12}$

8. A = any 3 parts shaded; B = any 5 parts shaded; C = all 4 parts shaded; D = any 6 parts shaded.

9. Poppy is correct: $\frac{1}{12} + \frac{1}{12} + \frac{4}{12}$; $\frac{1}{12} + \frac{2}{12} + \frac{3}{12}$; $\frac{2}{12} + \frac{2}{12} + \frac{2}{12}$