

Homework/Extension

Step 7: Add and Subtract Fractions

National Curriculum Objectives:

Mathematics Year 5: (5F4) [Add and subtract fractions with the same denominator and denominators that are multiples of the same number](#)

Mathematics Year 5: (5F2a) [Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements \$> 1\$ as a mixed number \[for example, \$2/5 + 4/5 = 6/5 = 1 \frac{1}{5}\$ \]](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Complete the comparison statement by adding and subtracting fractions within one. Models used.

Expected Complete the comparison statement by adding and subtracting fractions, where answers may be improper fractions that require converting to mixed numbers. Pictorial representations used.

Greater Depth Complete the comparison statement by adding and subtracting fractions, where answers may be improper fractions that require converting to mixed numbers. Questions use knowledge of equivalent fractions.

Questions 2, 5 and 8 (Varied Fluency)

Developing Identify the odd one out by adding and subtracting fractions within one. Pictorial representations used.

Expected Identify the odd one out by adding and subtracting fractions, where answers may be improper fractions that need converting to mixed numbers. Incomplete models and pictorial representations used.

Greater Depth Identify the odd one out by adding and subtracting fractions, where answers may be improper fractions that need converting to mixed numbers. Questions use knowledge of equivalent fractions.

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

Developing Identify the correct statement and explain why when adding and subtracting fractions within one.

Expected Identify the correct statement and explain why when adding and subtracting fractions, where answers may be improper fractions that need converting to mixed numbers. Models and pictorial representations used.

Greater Depth Identify the correct statement and explain why when adding and subtracting fractions, where answers may be improper fractions that need converting to mixed numbers. Questions use knowledge of equivalent fractions.

More [Year 5 Fractions](#) resources.

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

Add and Subtract Fractions

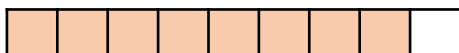
1. Insert $<$, $>$ or $=$ to make the statements correct.



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2. Which calculation is the odd one out? Complete the bar models to help you.

A. $\frac{8}{9} - \frac{6}{9}$



B. $\frac{5}{6} - \frac{2}{6}$



C. $\frac{6}{8} - \frac{3}{8}$



VF
HW/Ext

3. Blair and Nate are adding fractions.



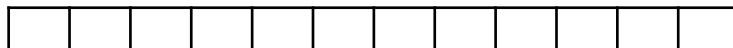
Blair

I think $\frac{5}{12}$ add $\frac{3}{12}$ equals $\frac{8}{12}$.

I think $\frac{5}{12}$ add $\frac{3}{12}$ equals $\frac{8}{24}$.



Nate



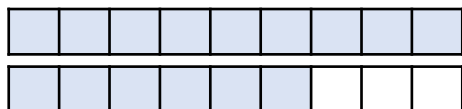
Who is correct? Explain your answer.



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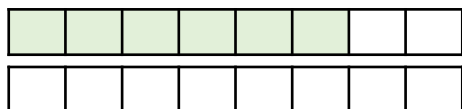
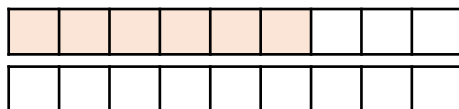
Add and Subtract Fractions

4. Insert $<$, $>$ or $=$ to make the statements correct. Use the bar models to help you.



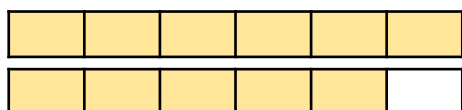
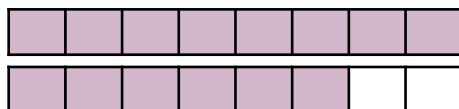
$$\frac{15}{9} - \frac{2}{9} \quad \square$$

$$\frac{6}{9} + \frac{5}{9}$$



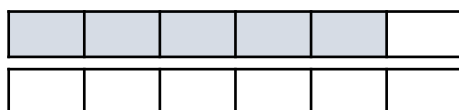
$$\frac{6}{8} + \frac{2}{8} \quad \square$$

$$\frac{14}{8} - \frac{6}{8}$$



$$\frac{11}{6} - \frac{4}{6} \quad \square$$

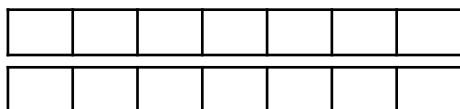
$$\frac{5}{6} + \frac{3}{6}$$



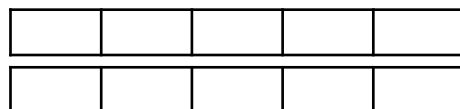
VF
HW/Ext

5. Which calculation is the odd one out? Complete the bar models to help you.

A. $\frac{10}{7} - \frac{6}{7}$



B. $\frac{7}{5} - \frac{4}{5}$



C. $\frac{6}{4} - \frac{2}{4}$



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6. Serena and Chuck are adding fractions.



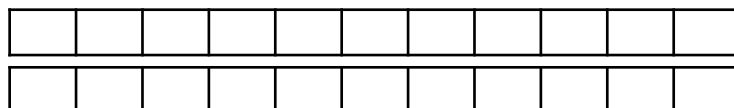
Serena

I think $\frac{8}{11}$ add $\frac{4}{11}$ equals $\frac{11}{11}$.

I think $\frac{8}{11}$ add $\frac{4}{11}$ equals $1\frac{1}{11}$.



Chuck



Who is correct? Explain your answer.



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Add and Subtract Fractions

7. Complete the calculations below. Insert $<$, $>$ or $=$ to make the statements correct by finding equivalent fractions.

$$\frac{7}{8} - \frac{3}{8} \quad \square \quad \frac{1}{4} + \frac{2}{4}$$

$$\frac{2}{12} + \frac{4}{12} \quad \square \quad \frac{5}{6} - \frac{2}{6}$$

$$\frac{13}{18} - \frac{6}{18} \quad \square \quad \frac{2}{9} + \frac{2}{9}$$



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8. Find the odd one out by solving the calculations and converting them into mixed numbers to find equivalent fractions with the smallest possible denominator.

A. $\frac{7}{12} + \frac{8}{12}$

B. $\frac{13}{16} + \frac{7}{16}$

C. $\frac{11}{12} + \frac{5}{12}$



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9. Jenny and Eric are adding fractions.



Jenny

I think $\frac{8}{9}$ add $\frac{7}{9}$ equals $1\frac{2}{3}$.

I think $\frac{8}{9}$ add $\frac{7}{9}$ equals $1\frac{1}{3}$.



Eric

Who is correct? Explain your answer.



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Add and Subtract Fractions

Developing

1. <; >; =
2. A is the odd one out because the answer has a numerator of 2. B and C have a numerator of 3.
3. Blair is correct because $\frac{5}{12} + \frac{3}{12} = \frac{8}{12}$. Nate has added the denominators.

Expected

4. >; =; <
5. B is the odd one out because the answer has a numerator of 3. A and C have a numerator of 4.
6. Chuck is correct because $\frac{8}{11} + \frac{4}{11} = \frac{12}{11} = 1\frac{1}{11}$.

Greater Depth

7. <; =; <
8. C is the odd one out because the answer is $1\frac{1}{3}$. A and B both equal $1\frac{1}{4}$.
9. Jenny is correct because $\frac{8}{9} + \frac{7}{9} = \frac{15}{9} = 1\frac{2}{3}$.