

Homework/Extension

Step 7: Adding Fractions

National Curriculum Objectives:

Mathematics Year 6: (6F4) [Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Compare fractions using knowledge of adding fractions to give answers greater than 1. Including mixed numbers and improper fractions where the denominator is a direct multiple of the same number.

Expected Compare fractions using knowledge of adding fractions to give answers greater than 1. Including mixed numbers and improper fractions where the denominator is not always a direct multiple of the same number.

Greater Depth Compare fractions using knowledge of adding fractions to give answers greater than 1. Including mixed numbers and improper fractions where the denominator is not a direct multiple of the same number.

Questions 2, 5 and 8 (Varied Fluency)

Developing Find the number sentence with a matching answer using knowledge of adding fractions to give answers greater than 1. Including mixed numbers and improper fractions where the denominator is a direct multiple of the same number.

Expected Find the number sentence with a matching answer using knowledge of adding fractions to give answers greater than 1. Including mixed numbers and improper fractions where the denominator is not always a direct multiple of the same number.

Greater Depth Find the number sentence with a matching answer using knowledge of adding fractions to give answers greater than 1. Including mixed numbers and improper fractions where the denominator is not a direct multiple of the same number.

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

Developing Prove which answer is correct using knowledge of adding fractions to give answers greater than 1. Including mixed numbers and improper fractions where the denominator is a direct multiple of the same number.

Expected Prove which answer is correct using knowledge of adding fractions to give answers greater than 1. Including mixed numbers and improper fractions where the denominator is not always a direct multiple of the same number.

Greater Depth Prove which answer is correct using knowledge of adding fractions to give answers greater than 1. Including mixed numbers and improper fractions where the denominator is not a direct multiple of the same number. Fractions will require simplifying.

More [Year 6 Fractions](#) resources.

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

Adding Fractions

1. Use the symbols $>$, $<$ or $=$ to make the calculations correct.

$$\frac{7}{4} + \frac{11}{8} \quad \bigcirc \quad \frac{6}{4} + \frac{10}{8}$$

$$2\frac{2}{3} + 1\frac{5}{6} \quad \bigcirc \quad 2\frac{2}{6} + 4\frac{1}{3}$$

$$\frac{11}{5} + \frac{12}{10} \quad \bigcirc \quad 1\frac{2}{10} + 3\frac{2}{5}$$



VF
HW/Ext

2. Which number statement will give the same answer as the calculation in the box below?

$$\frac{5}{2} + \frac{7}{6}$$

A. $2\frac{1}{2} + 1\frac{1}{6}$

B. $\frac{4}{2} + \frac{8}{6}$

C. $1\frac{1}{2} + 2\frac{5}{6}$

D. $\frac{3}{2} + \frac{5}{6}$

E. $2\frac{1}{2} + 1\frac{2}{6}$

F. $\frac{2}{2} + \frac{10}{6}$



VF
HW/Ext

3. Jaimee and Kayden have worked out the answer to the question below.

$$\frac{8}{6} + \frac{13}{12}$$



Jaimee

I think the answer is

$$\frac{29}{12}$$

I think the answer is

$$\frac{24}{12}$$



Kayden

Who is correct? Prove it.



RPS
HW/Ext

Adding Fractions

4. Use the symbols $>$, $<$ or $=$ to make the calculations correct.

$$\frac{9}{5} + \frac{12}{11} \quad \bigcirc \quad \frac{12}{5} + \frac{11}{11}$$

$$3\frac{2}{3} + 4\frac{4}{5} \quad \bigcirc \quad 5\frac{1}{3} + 1\frac{3}{5}$$

$$\frac{7}{6} + \frac{9}{4} \quad \bigcirc \quad 1\frac{5}{6} + 3\frac{3}{4}$$



VF
HW/Ext

5. Which number statement will give the same answer as the calculation in the box below?

$$\frac{19}{12} + \frac{12}{8}$$

A. $1\frac{1}{6} + 1\frac{7}{8}$

B. $\frac{13}{12} + \frac{5}{4}$

C. $1\frac{3}{4} + 1\frac{4}{12}$

D. $\frac{2}{3} + \frac{14}{12}$

E. $1\frac{1}{2} + 1\frac{1}{12}$

F. $\frac{5}{4} + \frac{9}{6}$



VF
HW/Ext

6. Shanice and Robert have worked out the answer to the question below.

$$\frac{12}{3} + \frac{15}{7}$$



Robert

I think the answer is
 $6\frac{3}{21}$

I think the answer is
 $\frac{129}{21}$



Shanice

Who is correct? Prove it.



RPS
HW/Ext

Adding Fractions

7. Use the symbols $>$, $<$ or $=$ to make the calculations correct.

$$\frac{7}{9} + \frac{11}{8} \quad \bigcirc \quad \frac{6}{9} + \frac{10}{8}$$

$$2\frac{5}{6} + 3\frac{5}{7} \quad \bigcirc \quad 2\frac{2}{6} + 4\frac{1}{7}$$

$$\frac{13}{3} + \frac{20}{7} \quad \bigcirc \quad 1\frac{2}{3} + 3\frac{5}{7}$$



VF
HW/Ext

8. Which number statement will give the same answer as the calculation in the box below?

$$\frac{14}{8} + \frac{9}{7}$$

A. $1\frac{3}{8} + 2\frac{5}{7}$

B. $\frac{10}{9} + \frac{13}{6}$

C. $1\frac{6}{5} + 1\frac{3}{8}$

D. $\frac{12}{6} + \frac{10}{11}$

E. $1\frac{2}{7} + 1\frac{3}{4}$

F. $\frac{2}{8} + \frac{11}{12}$



VF
HW/Ext

9. Luke and Christine have worked out the answer to the question below.

$$\frac{11}{9} + \frac{12}{8}$$



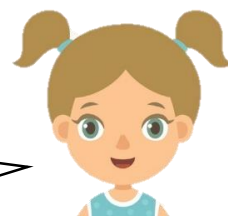
Luke

I think the answer is

$$2\frac{13}{18}$$

I think the answer is

$$\frac{49}{18}$$



Christine

Who is correct? Prove it.



RPS
HW/Ext

Homework/Extension

Adding Fractions

Developing

1. >, <, <

2. A

3. Jaimee is correct because $\frac{8}{6} + \frac{13}{12} = \frac{29}{12}$.

Expected

4. <, >, <

5. C

6. Both Robert and Shanice are correct because $6\frac{3}{21}$ is the same as $\frac{129}{21}$. Robert has changed the improper fraction to a mixed number and he has simplified the fraction.

Greater Depth

7. >, >, >

8. E

9. Both Luke and Christine are correct because $2\frac{13}{18}$ is the same as $\frac{49}{18}$. Luke simplified the fraction and changed it into a mixed number. Christine has simplified the improper fraction.