Homework/Extension
Step 6: Add and Subtract Fractions 2

National Curriculum Objectives:

Mathematics Year 6: (6F2) Use common factors to simplify fractions; use common multiples to express fractions in the same denomination
Mathematics Year 6: (6F4) Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
Mathematics Year 6: (6F11) Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Match the calculations to their answers, where the denominators are not all direct multiples of the same number. Pictorial support provided.
Expected Match the calculations to their answers, where the denominators are not all direct multiples of the same number.
Greater Depth Match the calculations to their answers, where the denominators are not direct multiples of the same number and simplifying answers where necessary.

Questions 2, 5 and 8 (Varied Fluency)
Developing Solve the calculation to identify the correct statement, where the denominators are not direct multiples of the same number. Pictorial support provided.
Expected Solve the calculation to identify the correct statement, where the denominators are not always direct multiples of the same number.
Greater Depth Solve the calculation to identify the correct statement, where the denominators are not direct multiples of the same number. Simplifying answers where possible.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Work out the missing digits needed to complete the mixed number calculation, where the denominators are direct multiples of the same number. Pictorial support provided.
Expected Work out the missing digits needed to complete the mixed number calculation, where the denominators are not always direct multiples of the same number.
Greater Depth Work out the missing digits needed to complete the mixed number calculation, where the denominators are not direct multiples of the same number. Simplifying answers where possible.

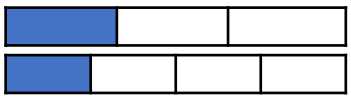
More Year 6 Fractions resources.

Did you like this resource? Don't forget to review it on our website.

Add and Subtract Fractions 2

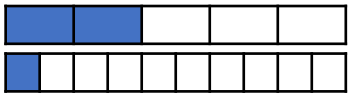
1. Match the calculations below to their correct answers.

A. $\frac{1}{3} + \frac{1}{4}$



B. $\frac{3}{4} + \frac{1}{8}$

C. $\frac{4}{5} - \frac{1}{10}$



D. $\frac{1}{2} - \frac{1}{5}$

$\frac{3}{10}$ $\frac{7}{8}$ $\frac{7}{10}$ $\frac{7}{12}$

D

VF
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2. Kane and Paris are solving the calculation below.

$\frac{4}{6} + \frac{1}{4} = ?$

Kane: The answer is $\frac{5}{12}$

Paris: The answer is $\frac{11}{12}$

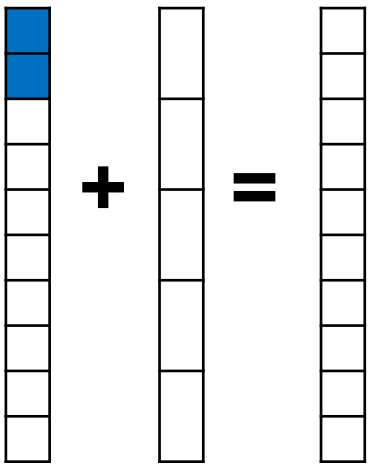
Who is correct?

D

VF
HW/Ext

3. Work out the numbers that are hidden by the splats.

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



Find 3 possible answers.

D

RPS
HW/Ext

Add and Subtract Fractions 2

4. Match the calculations below to their correct answers.

A. $\frac{3}{7} + \frac{4}{5}$

B. $\frac{2}{3} + \frac{3}{4}$

C. $\frac{3}{5} - \frac{2}{8}$

D. $\frac{5}{6} - \frac{4}{9}$

$\frac{7}{18}$	$\frac{17}{12}$ or $1\frac{5}{12}$	$\frac{14}{40}$	$\frac{43}{35}$ or $1\frac{8}{35}$

E

VF
HW/Ext

5. Harry and Alice are solving the calculation below.

$$\frac{2}{3} - \frac{3}{8} = ?$$

Harry: The answer is $\frac{7}{24}$

Alice: The answer is $\frac{1}{5}$

Who is correct?

E

VF
HW/Ext

6. Work out the numbers that are hidden by the splats.

$$\frac{5}{9} + \frac{\square}{\square} = \frac{\square}{72}$$

Find 3 possible answers.

E

RPS
HW/Ext

Add and Subtract Fractions 2

7. Match the calculations below to their correct answers.

A. $\frac{5}{6} + \frac{10}{15}$

B. $\frac{4}{7} + \frac{2}{6}$

C. $\frac{5}{9} - \frac{2}{6}$

D. $\frac{4}{5} - \frac{6}{8}$

$\frac{1}{20}$	$\frac{27}{18}$ or $1\frac{1}{2}$	$\frac{2}{9}$	$\frac{19}{21}$

GD

VF
HW/Ext

8. Alex and Carl are solving the calculation below.

$$\frac{3}{5} + \frac{7}{12} = ?$$

Alex: The answer is $1\frac{11}{60}$

Carl: The answer is $1\frac{1}{6}$

Who is correct?

GD

VF
HW/Ext

9. Work out the numbers that are hidden by the splats.

$$\frac{3}{\blacksquare} + \frac{\blacksquare}{9} = \frac{\blacksquare}{36} \text{ or } \frac{\blacksquare\blacksquare}{36}$$

Find 3 possible answers.

GD

RPS
HW/Ext

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Developing

1. A = $\frac{7}{12}$; B = $\frac{7}{8}$; C = $\frac{7}{10}$; D = $\frac{3}{10}$

2. Paris is correct. Kane has simply added the numerators.

3. Various possible answers, for example: $\frac{2}{10} + \frac{1}{5} = \frac{4}{10}$; $\frac{2}{10} + \frac{2}{5} = \frac{6}{10}$; $\frac{2}{10} + \frac{3}{5} = \frac{8}{10}$

Expected

4. A = $1\frac{8}{35}$; B = $1\frac{5}{12}$; C = $\frac{14}{40}$; D = $\frac{7}{18}$

5. Harry is correct. Alice has not worked out the correct numerator or denominator.

6. Various possible answers, for example: $\frac{5}{9} + \frac{1}{8} = \frac{49}{72}$; $\frac{5}{9} + \frac{2}{8} = \frac{58}{72}$; $\frac{5}{9} + \frac{3}{8} = \frac{67}{72}$

Greater Depth

7. A = $1\frac{1}{2}$; B = $\frac{19}{21}$; C = $\frac{2}{9}$; D = $\frac{1}{20}$

8. Alex is correct. Carl has made an error when simplifying his answer.

9. Various possible answers, for example: $\frac{3}{4} + \frac{5}{9} = \frac{47}{36}$ or $1\frac{11}{36}$; $\frac{3}{4} + \frac{7}{9} = \frac{55}{36}$ or $1\frac{19}{36}$; $\frac{3}{4} + \frac{8}{9} = \frac{59}{36}$ or $1\frac{23}{36}$