

Varied Fluency

Step 7: Add and Subtract Fractions

Teaching note: We have included bar models with shading and recommend that this resource is printed in colour or greyscale.

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:

Developing Questions to support adding and subtracting fractions within one. Models and pictorial representations used.

Expected Questions to support adding and subtracting fractions, where answers may be an improper fraction that needs converting to a mixed number. Models and pictorial representations used.

Greater Depth Questions to support adding and subtracting fractions, where answers may be an improper fraction that needs converting to a mixed number. Questions will require using 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

Add and Subtract Fractions

1a. Match the image to the correct answer.



A. $\frac{5}{6}$

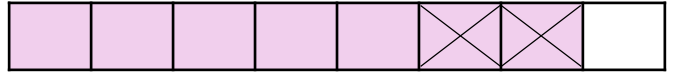
B. $\frac{7}{6}$

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



VF

1b. Match the image to the correct answer.



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

B. $\frac{5}{8}$

C. $\frac{5}{16}$



VF

2a. Complete the calculation that is represented by the image.



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



VF

2b. Complete the calculation that is represented by the image.

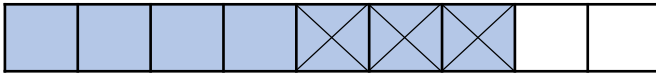


$$\frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$$



VF

3a. Calculate the following:

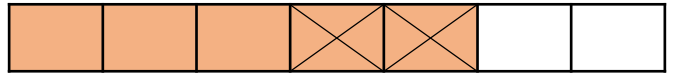


$$\frac{7}{9} - \frac{3}{9} = \frac{\square}{\square}$$



VF

3b. Calculate the following:



$$\frac{5}{7} - \frac{2}{7} = \frac{\square}{\square}$$



VF

4a. Jack drinks $\frac{3}{8}$ of his juice.

Asha drinks $\frac{4}{8}$ of her juice.



How much juice have they drunk altogether?

Record your answer as a fraction.



VF

4b. Sam has $\frac{6}{10}$ of a pizza.

He eats $\frac{2}{10}$ of it.



How much pizza does he have left?

Record your answer as a fraction.

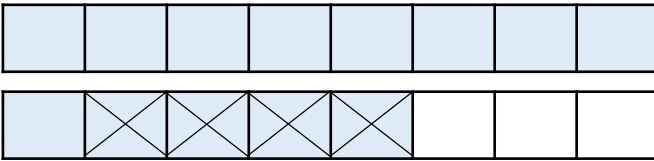


VF

Add and Subtract Fractions

Add and Subtract Fractions

5a. Match the image to the correct answer.



A. $1 \frac{4}{8}$

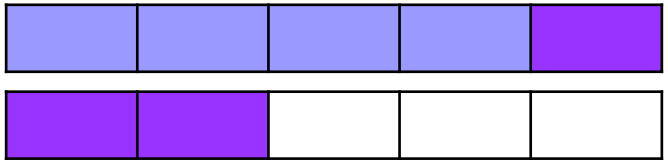
B. $1 \frac{1}{8}$

C. $2 \frac{1}{8}$



VF

5b. Match the image to the correct answer.



A. $1 \frac{7}{5}$

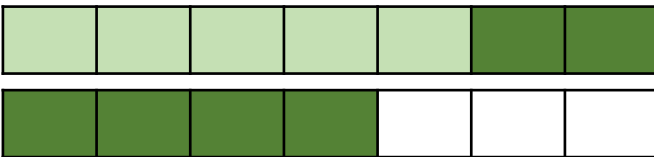
B. $2 \frac{2}{5}$

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



VF

6a. Complete the calculation that is represented by the image.

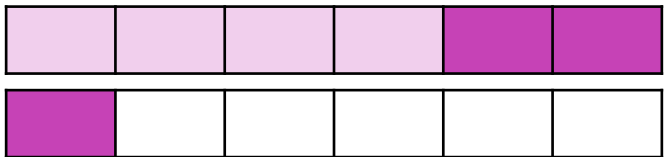


$$\frac{\boxed{}}{\boxed{}} + \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}} = \boxed{} \frac{\boxed{}}{\boxed{}}$$



VF

6b. Complete the calculation that is represented by the image.

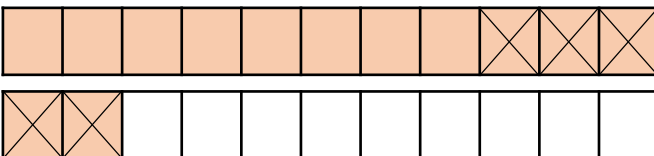


$$\frac{\boxed{}}{\boxed{}} + \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}} = \boxed{} \frac{\boxed{}}{\boxed{}}$$



VF

7a. Calculate the following:

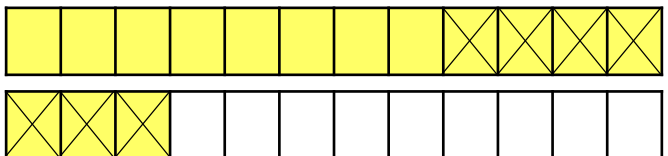


$$\frac{13}{11} - \frac{5}{11} = \frac{\boxed{}}{\boxed{}}$$



VF

7b. Calculate the following:



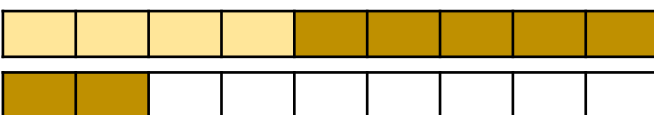
$$\frac{15}{12} - \frac{7}{12} = \frac{\boxed{}}{\boxed{}}$$



VF

8a. Marni eats $\frac{4}{9}$ of her chocolate bar.

Tammy eats $\frac{7}{9}$ of her chocolate bar.



How much chocolate have they eaten altogether?
Record your answer as a mixed number.



VF

8b. Laura is allowed $\frac{9}{11}$ of her free time to be TV time.

She has already watched TV for $\frac{3}{11}$ of her time.



How much of her free time does she have left to watch TV?
Record your answer as a fraction.



VF

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9a. Match the calculation to the correct answer.

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

A. $\frac{16}{12}$

B. $1 \frac{5}{12}$

C. $1 \frac{1}{6}$



VF

9b. Match the calculation to the correct answer.

$$\frac{16}{8} - \frac{4}{8}$$

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

B. $1 \frac{1}{2}$

C. $1 \frac{12}{16}$



VF

10a. Complete the missing digits to make the calculation correct.

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



VF

10b. Complete the missing digits to make the calculation correct.

$$\frac{5}{12} + \frac{\boxed{}}{12} = \frac{\boxed{}}{12} = 1 \frac{1}{4}$$



VF

11a. Calculate the following and write your answer as its equivalent fraction with the smallest denominator.

$$\frac{11}{8} - \frac{7}{8} = \frac{\boxed{}}{\boxed{}}$$



VF

11b. Calculate the following and write your answer as its equivalent fraction with the smallest denominator.

$$\frac{14}{12} - \frac{11}{12} = \frac{\boxed{}}{\boxed{}}$$



VF

12a. Chesney runs $\frac{5}{6}$ of a running track.
Shania runs $\frac{4}{6}$ of the same running track.

How many laps of the running track have they completed altogether?

Record your answer as a mixed number with the lowest possible denominator.



VF

12b. Luke is given $\frac{8}{9}$ of a bottle of drink.
He drinks $\frac{5}{9}$ of it.

How much drink does he have left?

Record your answer as a fraction with the lowest possible denominator.



VF

Varied Fluency
Add and Subtract Fractions

Developing

1a. **A**

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

3a. $\frac{4}{9}$

4a. **Altogether they have drunk $\frac{7}{8}$.**

Expected

5a. **B**

6a. $\frac{5}{7} + \frac{6}{7} = \frac{11}{7} = 1 \frac{4}{7}$

7a. $\frac{8}{11}$

8a. **Altogether they have eaten $1 \frac{2}{9}$.**

Greater Depth

9a. **C**

10a. $\frac{5}{6} + \frac{3}{6} = \frac{8}{6} = 1 \frac{1}{3}$

11a. $\frac{1}{2}$

12a. **Altogether they have completed $1 \frac{1}{2}$ laps of the running track.**

Varied Fluency
Add and Subtract Fractions

Developing

1b. **B**

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

3b. $\frac{3}{7}$

4b. **He has $\frac{4}{10}$ of his pizza left.**

Expected

5b. **C**

6b. $\frac{4}{6} + \frac{3}{6} = \frac{7}{6} = 1 \frac{1}{6}$

7b. $\frac{8}{12}$

8b. **She has $\frac{6}{11}$ of TV time left.**

Greater Depth

9b. **B**

10b. $\frac{5}{12} + \frac{10}{12} = \frac{15}{12} = 1 \frac{1}{4}$

11b. $\frac{1}{4}$

12b. **He has $\frac{1}{3}$ of his drink left.**