

Varied Fluency

Step 8: Subtracting 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:

Developing Questions to support subtracting mixed numbers where denominators are the same.

Expected Questions to support subtracting mixed numbers where denominators are direct multiples of the same number.

Greater Depth Questions to support subtracting mixed numbers where denominators are not always direct multiples of the same number.

[More resources](#) which follow the same small steps as White Rose.

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

Subtracting Fractions

1a. Which number statement will give the same answer as the calculation in the box below?

$$4\frac{1}{5} - 2\frac{4}{5}$$

a. $2\frac{6}{5} - 2\frac{4}{5}$

b. $3\frac{6}{5} - 2\frac{4}{5}$

c. $4\frac{3}{5} - 2\frac{4}{5}$

d. $2\frac{1}{5} - 1\frac{4}{5}$



VF

Subtracting Fractions

1b. Which number statement will give the same answer as the calculation in the box below?

$$3\frac{3}{8} - 1\frac{5}{8}$$

a. $3\frac{5}{8} - 1\frac{3}{8}$

b. $2\frac{15}{8} - 1\frac{5}{8}$

c. $2\frac{11}{8} - 1\frac{5}{8}$

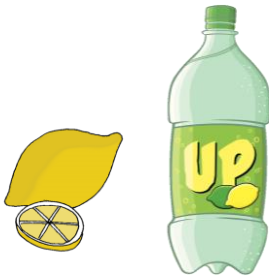
d. $3\frac{15}{8} - 1\frac{5}{8}$



VF

2a. Ciara is making lemonade.

She makes $6\frac{1}{3}$ litres and sells $4\frac{2}{3}$ litres.



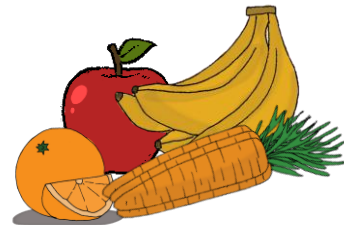
How much lemonade is left?



VF

2b. Callum bought $5\frac{1}{4}$ kg of fruit and vegetables.

The fruit weighs $3\frac{3}{4}$ kg.



How much do the vegetables weigh?



VF

3a. Add the symbols $>$, $<$ or $=$ to make the calculations correct.

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

$$5\frac{2}{8} - 1\frac{7}{8} \quad \square \quad 7\frac{3}{8} - 3\frac{1}{8}$$

$$6\frac{1}{6} - 2\frac{4}{6} \quad \square \quad 5\frac{2}{6} - 1\frac{5}{6}$$



VF

3b. Add the symbols $>$, $<$ or $=$ to make the calculations correct.

$$2\frac{1}{10} - 1\frac{3}{10} \quad \square \quad 2\frac{3}{10} - 1\frac{5}{10}$$

$$5\frac{3}{12} - 3\frac{9}{12} \quad \square \quad 6\frac{2}{12} - 4\frac{5}{12}$$

$$4\frac{1}{5} - 1\frac{3}{5} \quad \square \quad 5\frac{2}{5} - 2\frac{4}{5}$$



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Subtracting Fractions

4a. Which number statement will give the same answer as the calculation in the box below?

$$3\frac{4}{5} - 1\frac{6}{10}$$

a. $2\frac{1}{5} - 1\frac{6}{10}$

b. $3\frac{8}{5} - 1\frac{6}{10}$

c. $3\frac{8}{10} - 1\frac{6}{10}$

d. $3\frac{6}{10} - 1\frac{4}{5}$



VF

Subtracting Fractions

4b. Which number statement will give the same answer as the calculation in the box below?

$$6\frac{5}{8} - 2\frac{3}{4}$$

a. $6\frac{5}{8} - 2\frac{1}{8}$

b. $6\frac{5}{8} - 2\frac{6}{8}$

c. $7\frac{2}{8} - 2\frac{6}{8}$

d. $6\frac{2}{8} - 2\frac{6}{8}$



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5a. Alicia is baking some cakes.

She has $4\frac{3}{4}$ bags of flour.

She uses $2\frac{1}{8}$ bags to make the cakes.



How much flour does she have left?



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5b. Sebastian is on a sponsored run of $5\frac{3}{4}$ km.

So far, he has run $2\frac{1}{12}$ km.



How much further does he have to run?



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6a. Add the symbols $>$, $<$ or $=$ to make the calculations correct.

$$3\frac{2}{10} - 1\frac{4}{5} \quad \square \quad 4\frac{1}{10} - 2\frac{2}{5}$$

$$5\frac{3}{8} - 3\frac{3}{4} \quad \square \quad 4\frac{2}{8} - 3\frac{1}{4}$$

$$4\frac{2}{3} - 1\frac{3}{6} \quad \square \quad 5\frac{1}{6} - 3\frac{2}{3}$$



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6b. Add the symbols $>$, $<$ or $=$ to make the calculations correct.

$$2\frac{1}{6} - 1\frac{5}{12} \quad \square \quad 2\frac{1}{12} - 1\frac{5}{6}$$

$$6\frac{1}{10} - 4\frac{3}{5} \quad \square \quad 3\frac{2}{5} - 1\frac{6}{10}$$

$$5\frac{1}{2} - 1\frac{5}{6} \quad \square \quad 4\frac{1}{6} - 1\frac{4}{2}$$



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Subtracting Fractions

7a. Which number statement will give the same answer as the calculation in the box below?

$$5\frac{5}{6} - 3\frac{1}{10}$$

a. $7\frac{5}{12} - 3\frac{1}{5}$

b. $4\frac{6}{10} - 1\frac{3}{5}$

c. $3\frac{5}{11} - 1\frac{1}{3}$

d. $7\frac{6}{15} - 4\frac{2}{3}$



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Subtracting Fractions

7b. Which number statement will give the same answer as the calculation in the box below?

$$3\frac{3}{4} - 1\frac{1}{6}$$

a. $3\frac{5}{12} - 1\frac{3}{9}$

b. $6\frac{9}{10} - 4\frac{1}{6}$

c. $4\frac{5}{6} - 2\frac{2}{8}$

d. $3\frac{4}{5} - 1\frac{1}{3}$



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8a. On Saturday Thomas walked $6\frac{3}{4}$ miles.

He walked $2\frac{1}{6}$ miles less on Sunday.



How far did he walk on Sunday?



VF

8b. Chloe and Zac are eating pizza.

Chloe eats $5\frac{3}{4}$ slices and Zac eats $3\frac{1}{5}$ slices.



How many more slices did Chloe have?



VF

9a. Add the symbols $>$, $<$ or $=$ to make the calculations correct.

$$5\frac{6}{3} - 2\frac{1}{4} \quad \square \quad 6\frac{5}{6} - 3\frac{2}{8}$$

$$3\frac{7}{12} - 1\frac{1}{4} \quad \square \quad 5\frac{5}{5} - 3\frac{1}{4}$$

$$7\frac{5}{8} - 3\frac{1}{5} \quad \square \quad 6\frac{4}{5} - 2\frac{1}{10}$$



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9b. Add the symbols $>$, $<$ or $=$ to make the calculations correct.

$$3\frac{3}{12} - 1\frac{2}{9} \quad \square \quad 6\frac{2}{3} - 3\frac{2}{6}$$

$$4\frac{6}{9} - 1\frac{1}{6} \quad \square \quad 8\frac{2}{4} - 5\frac{1}{3}$$

$$9\frac{4}{5} - 3\frac{3}{8} \quad \square \quad 8\frac{4}{10} - 1\frac{1}{2}$$



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Varied Fluency
Subtracting Fractions

Developing

1a. **B**

2a. $1\frac{2}{3}$ litres

3a. $<, <, =$

Expected

4a. **C**

5a. $2\frac{5}{8}$ bags

6a. $<, >, >$

Greater Depth

7a. **D**

8a. $4\frac{7}{12}$ miles

9a. $>, <, <$

Varied Fluency
Subtracting Fractions

Developing

1b. **C**

2b. $1\frac{2}{4}$ kg

3b. $=, <, =$

Expected

4b. **B**

5b. $3\frac{2}{3}$ km

6b. $>, <, >$

Greater Depth

7b. **C**

8b. $2\frac{11}{20}$ slices

9b. $<, >, <$