# 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:

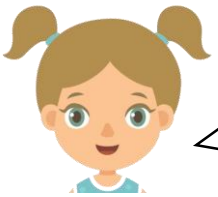
**Developing Questions to support subtracting mixed numbers where denominators are the same or direct multiples of the same number.**
**Expected Questions to support subtracting mixed numbers where denominators are not always direct multiples of the same number.**
**Greater Depth Questions to support subtracting mixed numbers where denominators are not direct multiples of the same number. All answers simplified where possible.**

## More Year 6 Fractions resources.

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

# Subtracting Fractions

1a. Sophie is working out the answer to $4\frac{3}{4} - 1\frac{1}{2}$.



I think this calculation has a smaller answer than $4\frac{3}{4} - 1\frac{6}{8}$.

Is Sophie correct?

D VF

1b. Jay is working out the answer to $\frac{9}{3} - \frac{2}{6}$.

I think this calculation has the same answer as $\frac{7}{3} - \frac{4}{6}$.

Is Jay correct?

D VF

2a. Solve the calculation below.

$$3\frac{2}{5} - 1\frac{1}{10} = \ ?$$

D VF

2b. Solve the calculation below.

$$\frac{8}{6} - \frac{5}{12} = \ ?$$

D VF

3a. Which calculation is the odd one out?

A. $\frac{8}{6} - \frac{2}{3}$

B. $\frac{12}{6} - \frac{4}{3}$

C. $\frac{10}{6} - \frac{1}{3}$

D VF

3b. Which calculation is the odd one out?

A. $5\frac{9}{10} - 3\frac{2}{5}$

B. $4\frac{4}{5} - 2\frac{8}{10}$

C. $5\frac{3}{5} - 3\frac{1}{10}$

D VF

4a. Mary is making lemonade.

She makes $6\frac{2}{3}$ litres.

She then sells $4\frac{2}{6}$ litres.


How much lemonade is left?

D VF

4b. Max is at a party.

He sees that $\frac{11}{8}$ of the 2 cakes have gone.

The chocolate cake has $\frac{3}{4}$ left.

How much is left of the vanilla?

D VF

# Subtracting Fractions

5a. Aaron is working out the answer to $3\frac{4}{5} - 1\frac{6}{10}$.

I think this calculation has the same answer as $3\frac{8}{10} - 1\frac{6}{10}$.

Is Aaron correct?

E VF

5b. Laila is working out the answer to $\frac{12}{9} - \frac{5}{4}$.

I think this calculation has a greater answer than $\frac{7}{4} - \frac{4}{9}$.

Is Laila correct?

E VF

6a. Solve the calculation below.

$$5\frac{5}{8} - 3\frac{2}{4} = \ ?$$

E VF

6b. Solve the calculation below.

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

E VF

7a. Which calculation is the odd one out?

A. $\frac{12}{5} - \frac{4}{3}$

B. $\frac{9}{3} - \frac{11}{5}$

C. $\frac{6}{3} - \frac{6}{5}$

E VF

7b. Which calculation is the odd one out?

A. $4\frac{2}{3} - 1\frac{1}{4}$

B. $4\frac{2}{6} - 1\frac{1}{2}$

C. $5\frac{11}{12} - 2\frac{1}{2}$

E VF

8a. 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?

E VF

8b. Thomas is on a sponsored run.

He has to run a total of $\frac{20}{4}$ km.

So far, he has completed $\frac{25}{12}$ km.

How much further does he have to run?

E VF

# Subtracting Fractions

9a. Shanice is working out the answer to $7\frac{5}{6} - 4\frac{3}{8}$.

I think this calculation has the same answer as $6\frac{4}{6} - 3\frac{5}{8}$.

Is Shanice correct?

GD VF

10a. Solve the calculation below. Give your answer in its simplest form.

$$7\frac{7}{12} - 4\frac{4}{5} = \ ?$$

GD VF

11a. Which calculation is the odd one out?

A. $\frac{6}{4} - \frac{13}{9}$

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

C. $\frac{12}{9} - \frac{9}{8}$

GD VF

12a. Ava went cycling at the weekend.

She cycled $6\frac{3}{4}$ miles on Saturday.

She cycled $\frac{9}{6}$ miles less on Sunday.

How far did she cycle on Sunday?

GD VF

# Subtracting Fractions

9b. Byron is working out the answer to $\frac{12}{9} - \frac{15}{12}$.

I think this calculation has the same answer as $\frac{8}{4} - \frac{5}{6}$.

Is Byron correct?

GD VF

10b. Solve the calculation below. Give your answer in its simplest form.

$$\frac{14}{6} - \frac{9}{7} = \ ?$$

GD VF

11b. Which calculation is the odd one out?

A. $5\frac{3}{5} - 2\frac{2}{6}$

B. $7\frac{6}{9} - 4\frac{2}{5}$

C. $5\frac{2}{5} - 2\frac{2}{12}$

GD VF

12b. Jamie is growing a sunflower.

In the first week it grew $5\frac{3}{4}$ cm.

In the second week it grew $\frac{9}{7}$ cm less.

How much did the it grow in week 2?

GD VF

## Varied Fluency
## Subtracting Fractions

### Developing

1a. Sophie is incorrect. Her calculation has a smaller answer.

2a. $2\frac{3}{10}$

3a. C

4a. $2\frac{1}{3}$ litres

### Expected

5a. Aaron is correct. Both calculations have the same answer.

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

7a. A

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

### Greater Depth

9a. Shanice is incorrect. The calculations have different answers.

10a. $2\frac{47}{60}$

11a. A

12a. $5\frac{1}{4}$ miles.

## Varied Fluency
## Subtracting Fractions

### Developing

1b. Jay is incorrect. The calculations have different answers.

2b. $\frac{11}{12}$

3b. B

4b. $\frac{5}{8}$

### Expected

5b. Laila is incorrect. Her calculation has the largest answer.

6b. $\frac{22}{21}$ or $1\frac{1}{21}$

7b. B

8b. $\frac{35}{12}$ or $2\frac{11}{12}$ km.

### Greater Depth

9b. Byron is incorrect. The calculations have different answers.

10b. $\frac{22}{21}$ or $1\frac{1}{21}$

11b. C

12b. $4\frac{13}{28}$ cm.