# Varied Fluency Step 15: Subtract 2 Mixed Numbers

## **National Curriculum Objectives:**

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 1/5]

Mathematics Year 5: (5F4) Add and subtract fractions with the same denominator and denominators that are multiples of the same number

#### Differentiation:

Developing Questions to support subtracting 2 mixed numbers where the denominator is double or half of the starting fraction.

Expected Questions to support subtracting 2 mixed numbers where the denominators are direct multiples of each other.

Greater Depth Questions to support subtracting 2 mixed numbers where the denominators are not direct multiples but share a common factor.

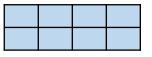
More <u>Year 5 Fractions</u> resources.

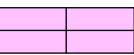
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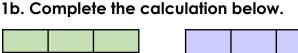
# **Subtract 2 Mixed Numbers**

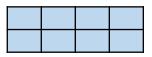
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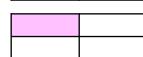
1a. Complete the calculation below.

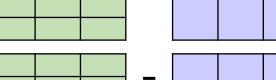


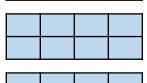


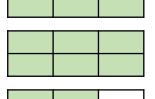


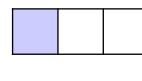
















2b. True or false?

2a. True or false?

The calculation below is correct.

 $4\frac{3}{5}-2\frac{2}{10}=2\frac{2}{5}$ 

The calculation below is correct.

$$5\frac{4}{10} - 1\frac{6}{20} = 4\frac{2}{10}$$





3a. Match the number sentences to the correct answers.

A.  $5\frac{8}{12} - 4\frac{1}{4}$ 

 $1\frac{2}{6}$ 

B.  $7\frac{3}{4} - 6\frac{4}{12}$ 

C.  $3\frac{10}{12} - 2\frac{3}{4}$ 

 $1\frac{3}{6}$ 

 $1\frac{1}{6}$ 

3b. Match the number sentences to the correct answers.

A.  $4\frac{8}{10} - 2\frac{1}{5}$ 

 $2\frac{2}{5}$ 

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

 $2\frac{1}{5}$ 

C.  $7\frac{8}{10} - 5\frac{2}{5}$ 

 $2\frac{3}{5}$ 





4a. Complete the calculation below.

 $6\frac{2}{3} - 3\frac{2}{4} =$ 

4b. Complete the calculation below.

$$8 \frac{3}{4} - 1 \frac{4}{8} =$$



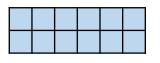


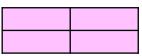
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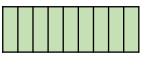
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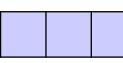
5b. Complete the calculation below.

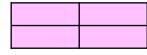
5a. Complete the calculation below.



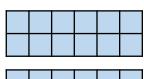


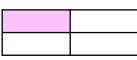


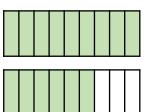
















6a. True or false?

The calculation below is correct.

$$5\frac{4}{9}-2\frac{6}{27}=3\frac{2}{9}$$

6b. True or false?

The calculation below is correct.

$$7\frac{4}{7} - 4\frac{12}{28} = 3\frac{2}{7}$$





7a. Match the number sentences to the correct answers.

A. 
$$6\frac{16}{20} - 2\frac{1}{5}$$

B.  $8\frac{3}{5}-4\frac{12}{30}$ 

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

$$4\frac{3}{5}$$

A. 
$$8\frac{15}{18} - 2\frac{1}{6}$$

B. 
$$7\frac{3}{6} - 1\frac{7}{42}$$

C. 
$$9\frac{28}{35} - 5\frac{2}{5}$$

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

C. 
$$9\frac{24}{36} - 3\frac{3}{6}$$





8a. Complete the calculation below.

$$7 \frac{7}{8} - 6 \frac{24}{32} =$$

$$5\frac{3}{4}-4\frac{18}{36}=$$



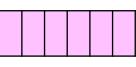


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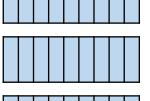
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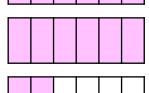
9a. Complete the calculation below.

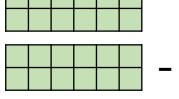


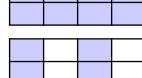


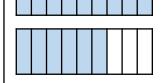




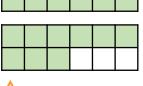














10a. True or false?

The calculation below is correct.

$$9\frac{12}{14} - 4\frac{15}{35} = 5\frac{4}{7}$$

10b. True or false?

The calculation below is correct.

$$8\frac{24}{27} - 6\frac{24}{72} = 2\frac{5}{9}$$

11b. Match the number sentences to the





11a. Match the number sentences to the correct answers.

A. 
$$7\frac{35}{40} - 2\frac{12}{16}$$

$$5\frac{5}{8}$$

 $5\frac{3}{8}$ 

 $5\frac{1}{8}$ 

B. 
$$9\frac{21}{24} - 4\frac{14}{56}$$

C. 
$$8\frac{42}{48} - 3\frac{16}{32}$$

A. 
$$9 \frac{32}{48}$$

correct answers.

A. 
$$9 \frac{32}{48} - 5 \frac{15}{30}$$

B. 
$$6\frac{15}{18} - 2\frac{9}{54}$$

C. 
$$7\frac{35}{42} - 3\frac{6}{12}$$

$$4\frac{2}{6}$$

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



12a. Complete the calculation below.

$$6 \frac{42}{54} - 5 \frac{27}{81} =$$



12b. Complete the calculation below.

$$5 \frac{25}{35} - 4 \frac{24}{56} =$$





## **Varied Fluency Subtract 2 Mixed Numbers**

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#### **Developing**

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

2a. True

3a. 
$$A = 1 \frac{3}{6}$$
,  $B = 1 \frac{1}{6}$ ,  $C = 1 \frac{2}{6}$ 

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

#### **Expected**

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

6a. True

7a. A = 
$$4\frac{3}{5}$$
, B =  $4\frac{1}{5}$ , C =  $4\frac{2}{5}$ 

8a. 1 -

#### **Greater Depth**

9a. 1
$$\frac{1}{3}$$

10a. False, the correct answer is  $5\frac{3}{7}$ . 11a. A =  $5\frac{1}{8}$ , B =  $5\frac{5}{8}$ , C =  $5\frac{3}{8}$ 

11a. A = 
$$5\frac{1}{8}$$
, B =  $5\frac{5}{8}$ , C =  $5\frac{3}{8}$ 

12a. 1  $\frac{4}{9}$ 

#### **Developing**

1b. 
$$1\frac{1}{3}$$

2b. False, the correct answer is 
$$4\frac{1}{10}$$
.  
3b. A =  $2\frac{3}{5}$ , B =  $2\frac{1}{5}$ , C =  $2\frac{2}{5}$ 

4b.  $7\frac{1}{4}$ 

#### **Expected**

5b. 
$$2\frac{1}{3}$$

6b. False, the correct answer is  $3\frac{1}{7}$ . 7b. A =  $6\frac{4}{6}$ , B =  $6\frac{2}{6}$ , C =  $6\frac{1}{6}$ 

7b. A = 
$$6\frac{4}{6}$$
, B =  $6\frac{2}{6}$ , C =  $6\frac{1}{6}$ 

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

#### **Greater Depth**

10b. True

11b. A = 
$$4\frac{1}{6}$$
, B =  $4\frac{4}{6}$ , C =  $4\frac{2}{6}$ 

12b.  $1\frac{2}{7}$