

# Homework

## Subtract Fractions

### National Curriculum Objectives:

Mathematics Year 3: (3F4) Add and subtract fractions with the same denominator within one whole [for example,  $5/7 + 1/7 = 6/7$  ]

Mathematics Year 3: (3F10) Solve problems that involve the above objectives

### Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Use knowledge of subtracting fractions (where the denominator is less than 10) to match the calculation to the correct image.

**Expected** Use knowledge of subtracting fractions (where the denominator is 12 or less) to match the calculation to the correct image.

**Greater Depth** Use knowledge of subtracting fractions (where the denominator is 12 or less) to match the calculation to the correct answer. Includes one equivalent fraction that needs simplifying.

Questions 2, 5 and 8 (Varied Fluency)

**Developing** Write the number sentence to match the given question. Includes subtracting fractions where the denominator is less than 10. With pictorial support.

**Expected** Write the number sentence to match the given question. Includes subtracting fractions where the denominator is 12 or less. No pictorial support.

**Greater Depth** Write the number sentence to match the given question. Includes subtracting fractions where the denominator is 12 or less. Includes one equivalent fraction that needs simplifying. No pictorial support.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

**Developing** Write two different subtraction calculations to make a given fraction. Includes subtracting fractions where the denominator is less than 10. With pictorial support.

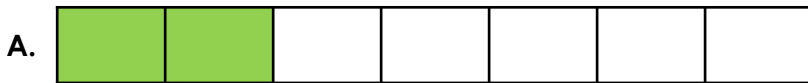
**Expected** Write two different subtraction calculations to make a given fraction. Includes subtracting fractions where the denominator is 12 or less. No pictorial support.

**Greater Depth** Write two different subtraction calculations to make a given fraction. Includes subtracting fractions where the denominator is 12 or less. Includes one equivalent fraction that needs simplifying. No pictorial support.

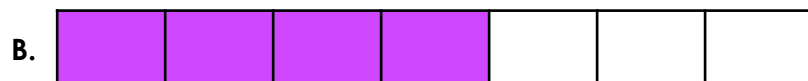
# Subtract Fractions

1. Match the calculation to the correct answer.

1.  $\frac{6}{7} - \frac{2}{7} =$



2.  $\frac{4}{7} - \frac{1}{7} =$



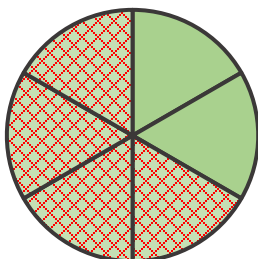
3.  $\frac{5}{7} - \frac{3}{7} =$



VF  
HW/Ext

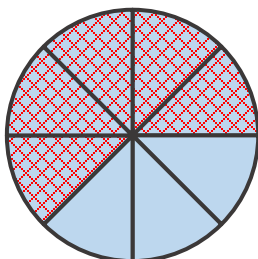
2. Write a number sentence to match the questions below.

A. Dad cut a pie into 6 equal slices. We ate 4 slices. What fraction of pie is left?



$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$$

B. I cut a chocolate bar into 8 equal pieces. If I eat 5 pieces, what fraction of chocolate bar is left?



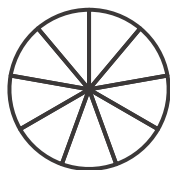
$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$$



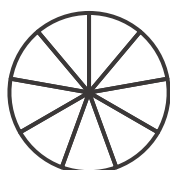
VF  
HW/Ext

3. If the answer is  $\frac{4}{9}$  what could the question be?

Write down 2 different subtraction calculations that would give this answer.



$$\frac{\square}{9} - \frac{\square}{9} = \frac{4}{9}$$



$$\frac{\square}{9} - \frac{\square}{9} = \frac{4}{9}$$



RPS  
HW/Ext

# Subtract Fractions

4. Match the calculation to the correct answer.

1.  $\frac{8}{12} - \frac{4}{12} =$



2.  $\frac{6}{12} - \frac{3}{12} =$



3.  $\frac{9}{12} - \frac{2}{12} =$



VF  
HW/Ext

5. Write a number sentence to match the questions below.

A. At my party, Mum cut the pizza into 8 equal slices. She gave  $\frac{5}{8}$  of the pizza to Dad and I ate the rest. How much did I eat?

$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$$

B. 10 friends went to a party. 8 of them had fruit juice. What fraction of them did not have a drink?

$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$$



VF  
HW/Ext

6. If the answer is  $\frac{5}{11}$  what could the question be?

Write down 2 different subtraction calculations that would give this answer.

$$\frac{\square}{11} - \frac{\square}{11} = \frac{5}{11}$$

$$\frac{\square}{11} - \frac{\square}{11} = \frac{5}{11}$$



RPS  
HW/Ext

# Subtract Fractions

7. Match the calculation to the correct answer.

1.  $\frac{9}{10} - \frac{10}{20} =$



2.  $\frac{7}{10} - \frac{2}{10} =$



3.  $\frac{8}{10} - \frac{6}{30} =$



VF  
HW/Ext

8. Write a number sentence to match the questions below.

A. I cut a cake into 5 equal slices. If we ate  $\frac{4}{10}$  what fraction of the cake is left to eat?

$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$$

B. 4 friends were invited to a party. If  $\frac{2}{8}$  of them didn't go, how many were at the party?

$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$$



VF  
HW/Ext

9. If the answer is  $\frac{2}{8}$  what could the question be?

Write down 2 different subtraction calculations that would give this answer.

$$\frac{\square}{8} - \frac{\square}{16} = \frac{2}{8}$$

$$\frac{\square}{8} - \frac{\square}{16} = \frac{2}{8}$$



RPS  
HW/Ext

# Homework

## Subtract Fractions

### Developing

1. 1 - B, 2 - C, 3 - A

2.  $A = \frac{6}{6} - \frac{4}{6} = \frac{2}{6}$        $B = \frac{8}{8} - \frac{5}{8} = \frac{3}{8}$

3. Various answers, for example:  $\frac{9}{9} - \frac{5}{9} = \frac{4}{9}$ ,  $\frac{8}{9} - \frac{4}{9} = \frac{4}{9}$ ,  $\frac{7}{9} - \frac{3}{9} = \frac{4}{9}$

### Expected

4. 1 - C, 2 - A, 3 - B

5.  $A = \frac{8}{8} - \frac{5}{8} = \frac{3}{8}$        $B = \frac{10}{10} - \frac{8}{10} = \frac{2}{10}$

6. Various answers, for example:  $\frac{11}{11} - \frac{6}{11} = \frac{5}{11}$ ,  $\frac{10}{11} - \frac{5}{11} = \frac{5}{11}$ ,  $\frac{9}{11} - \frac{4}{11} = \frac{5}{11}$

### Greater Depth

7. 1 - B, 2 - A, 3 - C

8.  $A = \frac{5}{5} - \frac{2}{5} = \frac{3}{5}$        $B = \frac{4}{4} - \frac{1}{4} = \frac{3}{4}$

9. Various answers, for example:  $\frac{5}{8} - \frac{6}{16} = \frac{2}{8}$ ,  $\frac{6}{8} - \frac{8}{16} = \frac{2}{8}$ ,  $\frac{4}{8} - \frac{4}{16} = \frac{2}{8}$