

# Homework/Extension

## Step 11: Multiply Fractions by Fractions

### National Curriculum Objectives:

Mathematics Year 6: (6F2) [Use common factors to simplify fractions; use common multiples to express fractions in the same denomination](#)

Mathematics Year 6: (6F5a) [Multiply simple pairs of proper fractions, writing the answer in its simplest form \[for example,  \$\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}\$ \]](#)

### Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Circle the correct answer to the given calculation. All numerators are 1; pictorial support is given and the answer is less than one.

**Expected** Circle the correct answer to the given calculation. Numerators are any number; some pictorial support is given and the answer is less than one.

**Greater Depth** Circle the correct answer to the given calculation. Numerators are any number and a diagram is provided. Improper fractions and mixed numbers included.

Questions 2, 5 and 8 (Varied Fluency)

**Developing** Match three given calculations to their respective answers. All numerators are 1; pictorial support is given and all answers are less than one.

**Expected** Match three given calculations to their respective answers. Numerators are any number; some pictorial support is given and all answers are less than one.

**Greater Depth** Match three given calculations to their respective answers. Numerators are any number. Improper fractions and mixed numbers are included.

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

**Developing** Choose number cards to complete the given calculation. All numerators are 1; pictorial support is given and the answer is less than one.

**Expected** Choose number cards to complete the given calculation. Numerators are any number and the answer is less than one.

**Greater Depth** Choose number cards to complete the given calculation. Numerators are any number. Improper fractions and mixed numbers are included.

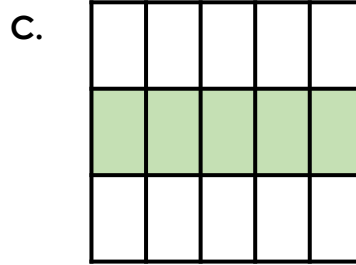
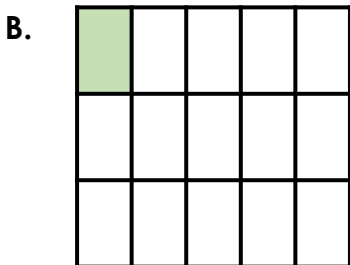
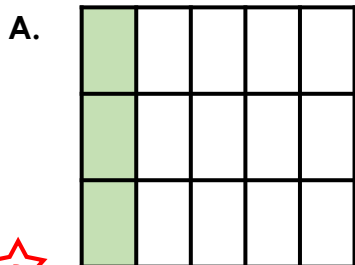
More [Year 6 Fractions](#) resources.

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

# Multiply Fractions by Fractions

1. Circle the correct answer to the calculation below.

$$\frac{1}{5} \times \frac{1}{3} =$$



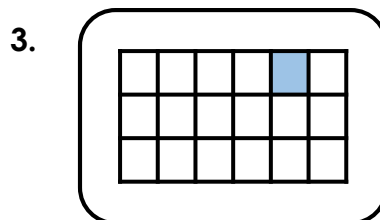
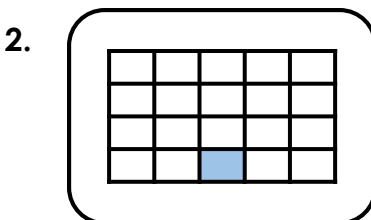
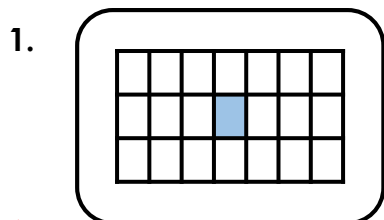
VF  
HW/Ext

2. Match the calculations to the correct answers.

A.  $\frac{1}{3} \times \frac{1}{6} =$

B.  $\frac{1}{5} \times \frac{1}{4} =$

C.  $\frac{1}{7} \times \frac{1}{3} =$



VF  
HW/Ext

3. Choose the correct number cards to complete the calculation below. Each number card can only be used once.

$$\frac{1}{\square} \times \frac{1}{\square} =$$

- 2    3    5    6    10    12



RPS  
HW/Ext

# Multiply Fractions by Fractions

4. Circle the correct answer to the calculation below.

$$\frac{4}{7} \times \frac{5}{6} =$$

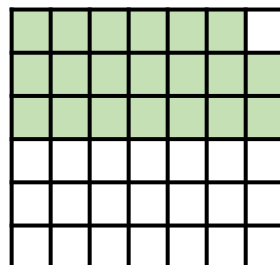
A.

$$\frac{24}{42}$$

B.

$$\frac{24}{35}$$

C.



VF  
HW/Ext

5. Match the calculations to the correct answers.

A.

$$\frac{2}{3} \times \frac{7}{8} =$$

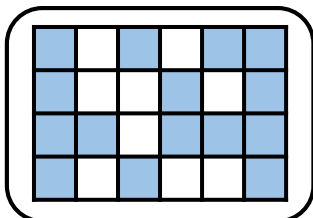
B.

$$\frac{3}{4} \times \frac{5}{6} =$$

C.

$$\frac{11}{12} \times \frac{7}{9} =$$

1.



2.

$$\frac{77}{108}$$

3.

$$\frac{7}{12}$$



VF  
HW/Ext

6. Choose the correct number cards to complete the calculation below. Each number card can only be used once.

$$\frac{\square}{3} \times \frac{5}{\square} = \frac{\square}{\square}$$

2

6

8

10

18

24



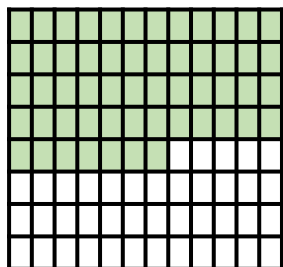
RPS  
HW/Ext

# Multiply Fractions by Fractions

7. Circle the correct answer to the calculation below.

$$\frac{11}{12} \times 1\frac{3}{5} =$$

A.



B.

$$\frac{88}{55}$$

C.

$$1\frac{14}{30}$$



VF  
HW/Ext

8. Match the calculations to the correct answers.

A.

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

B.

$$\frac{12}{7} \times \frac{8}{9} =$$

C.

$$\frac{3}{8} \times \frac{11}{6} =$$

1.

$$\frac{11}{16}$$

2.

$$\frac{16}{15}$$

3.

$$1\frac{11}{21}$$



VF  
HW/Ext

9. Choose the correct number cards to complete the calculation below. Each number card can only be used once.

$$\frac{\square}{4} \times \frac{7}{\square} = 1\frac{\square}{\square}$$

1

3

5

15

20

21



RPS  
HW/Ext

# Homework/Extension

## Multiply Fractions by Fractions

### Developing

1. **B**
2. **A. 3; B. 2; C. 1**
3.  $\frac{1}{5} \times \frac{1}{6}$  or  $\frac{1}{3} \times \frac{1}{10}$

### Expected

4. **C**
5. **A. 3; B. 1; C. 2**
6.  $\frac{2}{3} \times \frac{5}{6} = \frac{10}{18}$  or  $\frac{2}{3} \times \frac{5}{8} = \frac{10}{24}$

### Greater Depth

7. **C**
8. **A. 2; B. 3; C. 1**
9.  $\frac{3}{4} \times \frac{7}{5} = 1 \frac{1}{20}$