

Fabulous Fractions Lesson 2: Multiplying Fractions

Example 1	Example 2
<p>Work out $\frac{3}{8} \times \frac{5}{6}$.</p> <p>Answer Multiply numerators and denominators $\frac{3 \times 5}{8 \times 6} = \frac{15}{48}$</p> <p>Simplify fraction $\frac{15}{48} \xrightarrow{\div 3} \frac{5}{16}$</p>	<p>Find $\frac{5}{6}$ of £27.</p> <p>Answer Remember 'of' means multiply. Create two fractions: $\frac{5}{6} \times \frac{27}{1} = \frac{5 \times 27}{6 \times 1} = \frac{135}{6}$</p> <p>Simplify: $\frac{135}{6} = \frac{\div 3}{\div 3} = \frac{45}{2}$</p> <p>Now the decimal division $45 \div 2 =$ £22.50</p>

1. Work out these multiplication sums.

a. $\frac{3}{4} \times \frac{1}{2} = \dots\dots\dots$ b. $\frac{5}{8} \times \frac{3}{4} = \dots\dots\dots$ c. $\frac{1}{5} \times \frac{4}{5} = \dots\dots\dots$

2. Complete these multiplication sums simplifying your answers.

a. $\frac{5}{8} \times \frac{2}{3} = \dots\dots\dots$ b. $\frac{5}{6} \times \frac{3}{4} = \dots\dots\dots$ c. $\frac{1}{4} \times \frac{8}{9} = \dots\dots\dots$

3. Calculate the following:

a. $\frac{2}{3}$ of £18 = $\dots\dots\dots$ b. $\frac{3}{5}$ of £25 = $\dots\dots\dots$ c. $\frac{3}{8}$ of £48 = $\dots\dots\dots$

4. Match up these calculations to their correct answer.

$\frac{11}{12} \times \frac{4}{5}$
$\frac{7}{8} \times \frac{2}{3}$
$\frac{3}{10} \times \frac{5}{6}$
$\frac{1}{2} \times \frac{3}{4}$

$\frac{1}{4}$
$\frac{11}{15}$
$\frac{7}{12}$
$\frac{3}{8}$

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5. Complete these multiplication sums simplifying your answers.

a. $\frac{5}{8} \times \frac{6}{7} =$
.....


b. $\frac{5}{9} \times \frac{6}{7} =$
.....

c. $\frac{5}{8} \times \frac{4}{15} =$
.....

6. $\frac{2}{5}$ of my friends go to the cinema every weekend. Half of them are boys.
What fraction of my friends are boys?

..... 

7. There was $\frac{7}{12}$ of a pie left in the fridge. Jade ate $\frac{3}{4}$ of the leftover pie.
How much of the pie did she eat?

..... 

8. Complete these multiplication sums simplifying your answers.

a. $\frac{5}{8}$ of £44 =
.....

b. $\frac{3}{4}$ of £54 =

c. $\frac{7}{12}$ of £30
=
.....
.....

Challenge

1. Complete these multiplication sums simplifying your answers.

a. $\frac{5}{8} \times \frac{2}{3}$
.....

b. $\frac{7}{9} \times \frac{3}{4} =$
.....

c. $\frac{3}{4} \times \frac{11}{18} =$
.....

2. Complete the following mixed number calculations.

a. $\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} =$

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

(Tip: change to improper fractions first.)