Fraction multiplication problems

Multiply simple pairs of proper fractions, writing the answer in its simplest form



1 Multiply each pair of fractions together.

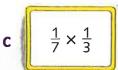




$$\frac{1}{5} \times \frac{2}{3} = \frac{1 \times 2}{5 \times 3} = \frac{2}{15}$$

a
$$\frac{1}{6} \times \frac{1}{2}$$

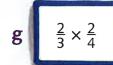
 $\frac{1}{2} \times \frac{1}{4}$



d $\frac{1}{5} \times \frac{1}{2}$

$$\frac{1}{4} \times \frac{1}{3}$$

f $\frac{2}{5} \times \frac{1}{3}$

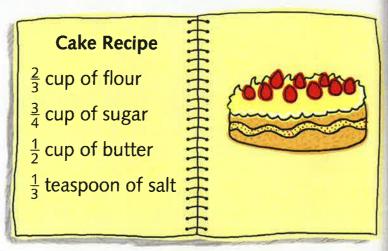




i
$$\frac{2}{5} \times \frac{3}{4}$$

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

2 Julie is going to make a cake but she only wants to use $\frac{1}{2}$ of the ingredients. Work out how much of each ingredient she needs.



1 Multiply each pair of fractions together, writing the answer in its simplest form.

Example
$$\frac{3}{5} \times \frac{4}{6} = \frac{3 \times 4}{5 \times 6} = \frac{12}{30} = \frac{2}{5}$$

a $\frac{3}{4} \times \frac{2}{5}$

b $\frac{2}{6} \times \frac{3}{7}$

 $\frac{3}{8} \times \frac{1}{2}$

 $\frac{4}{9} \times \frac{3}{6}$

 $f = \frac{1}{12}$

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

h $\frac{6}{10} \times \frac{2}{6}$

 $\frac{5}{7} \times \frac{3}{7}$

 $\frac{3}{4} \times \frac{6}{8}$

2 Jonny is hungry. In the fridge he finds:

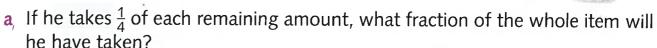
• $\frac{3}{8}$ of a pizza

• $\frac{3}{4}$ of a cake

• $\frac{4}{5}$ of a pint of milk

• $\frac{2}{3}$ of a bag of carrots

Write the answer to each of these problems in their simplest form.



b If he eats half of each remaining amount, what fraction of each whole amount will be left?

c If he eats $\frac{2}{6}$ of each remaining amount, how much will he have eaten?

For the following questions record your answers in a table like the one below.

	Sunday	Monday	Tuesday	Wednesday
Fraction of cereal eaten	<u>2</u> 10			
Fraction of cereal left	<u>8</u> 10			

On Sunday night the box of cereal had $\frac{8}{10}$ left in it.

a On Monday morning, Josie got up and ate some of the cereal. She ate $\frac{1}{4}$ of what was there and left $\frac{3}{4}$.

i What fraction of the whole box of cereal did she eat?

ii What fraction of the whole box of cereal did she leave?

b On Tuesday she ate $\frac{1}{2}$ of what was there and left $\frac{1}{2}$.

i What fraction of the whole box of cereal did she eat?

ii What fraction of the whole box of cereal did she leave?

c On Wednesday she ate $\frac{4}{6}$ of what was there, and left $\frac{2}{6}$.

i What fraction of the whole box of cereal did she eat?

ii What fraction of the whole box of cereal did she leave?

d Compare how much cereal was in the box on Sunday night to how much was in the box on Wednesday night.

