



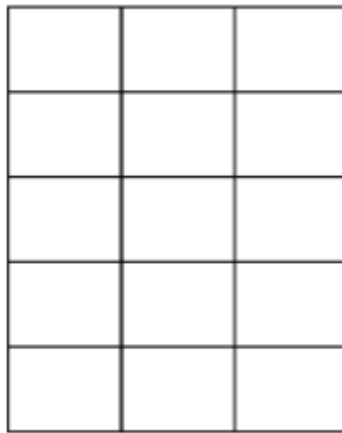
## Multiplying Fractions

1a) Use the diagram to shade in  $\frac{2}{3}$ .



1b) Using the diagram, you have just done, can you explain what  $\frac{1}{2}$  of  $\frac{2}{3}$  is?

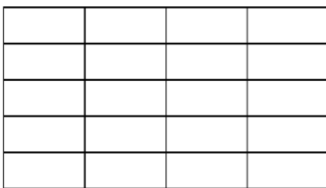
2a) Use the diagram to shade in  $\frac{2}{3}$ .



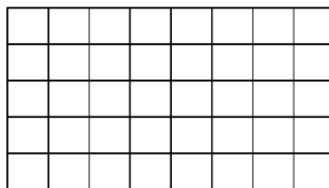
2b) Using the diagram, you have just done, can you explain what  $\frac{4}{5}$  of  $\frac{2}{3}$  is?

3) Use the following diagrams to represent the three questions:

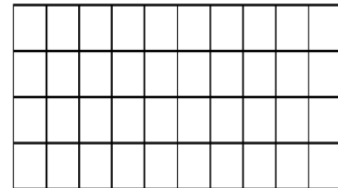
a)  $\frac{2}{5}$  of  $\frac{1}{4}$



b)  $\frac{2}{5}$  of  $\frac{2}{8}$



c)  $\frac{1}{4}$  of  $\frac{4}{10}$



3d) What links did you spot in questions 3a, 3b and 3c?

4a) What diagram would help you answer  $\frac{2}{7}$  of  $\frac{3}{5}$ ? Draw it underneath and answer the question.

4b) How did you decide how many parts to split the rectangle in to?

5) Rather than *lots of* we can use  $\times$  (multiply). You may use a diagram if you wish to answer the following questions. Each row of four questions are linked, can you spot the connections?

a)  $\frac{1}{2} \times \frac{2}{3}$

b)  $\frac{4}{5} \times \frac{2}{3}$

c)  $\frac{2}{5} \times \frac{2}{8}$

d)  $\frac{2}{7} \times \frac{3}{5}$

e)  $\frac{5}{8} \times \frac{7}{9}$

f)  $\frac{7}{8} \times \frac{5}{9}$

g)  $\frac{5}{7} \times \frac{8}{9}$

h)  $\frac{8}{7} \times \frac{5}{9}$

i)  $\frac{1}{5} \times \frac{3}{4}$

j)  $\frac{2}{5} \times \frac{3}{4}$

k)  $\frac{3}{5} \times \frac{3}{4}$

l)  $\frac{4}{5} \times \frac{3}{4}$

m)  $\frac{3}{2} \times \frac{2}{3}$

n)  $1\frac{1}{2} \times \frac{2}{3}$

o)  $\frac{6}{11} \times \frac{11}{6}$

p)  $\frac{6}{11} \times 1\frac{5}{6}$

q)  $1 \times \frac{4}{5}$

r)  $2 \times \frac{4}{5}$

s)  $3 \times \frac{4}{5}$

t)  $4 \times \frac{4}{5}$

u)  $1\frac{1}{2} \times \frac{3}{5}$

v)  $\frac{1}{2} \times 1\frac{3}{5}$

w)  $2\frac{1}{2} \times 4\frac{3}{5}$

x)  $4\frac{1}{2} \times 2\frac{3}{5}$

Extension:  $\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \times \frac{5}{6} \times \frac{6}{7} \times \frac{7}{8}$