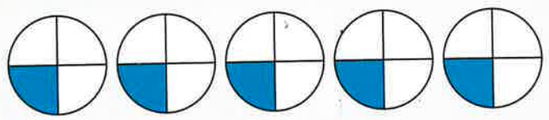
ultiplying proper fractions

ultiply proper fractions by whole numbers

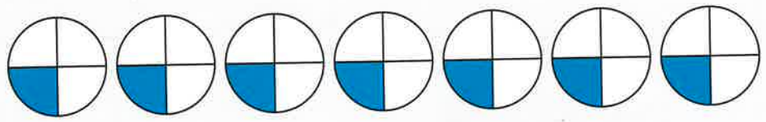
Example

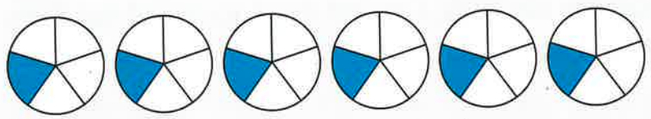
$\frac{1}{2} \times 3$  $= 1\frac{1}{2}$

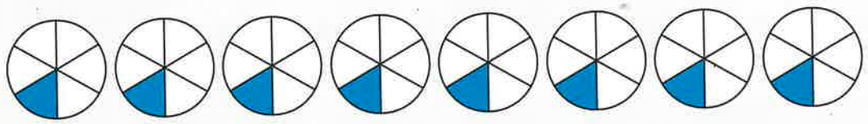
Multiply these fractions using the diagrams to help you. Write your answer as a mixed number.

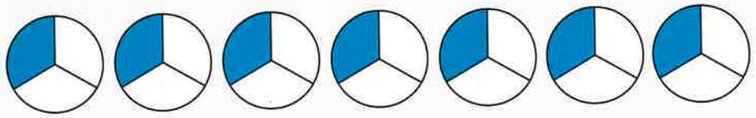
a $\frac{1}{4} \times 5$ 

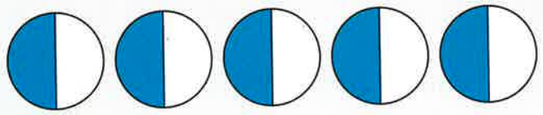
b $\frac{1}{3} \times 5$ 

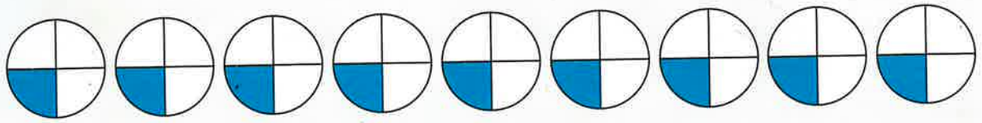
c $\frac{1}{4} \times 7$ 

d $\frac{1}{5} \times 6$ 

e $\frac{1}{6} \times 8$ 

f $\frac{1}{3} \times 7$ 

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

h $\frac{1}{4} \times 9$ 

Challenge 2

1 Write these calculations out as repeated addition, then work out the answer. Write your answer as an improper fraction and as a mixed number.

Example

$\frac{2}{3} \times 4 = \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{8}{3} = 2\frac{2}{3}$

a $\frac{3}{5} \times 4$	b $\frac{4}{6} \times 2$	c $\frac{3}{4} \times 5$	d $\frac{2}{6} \times 4$
e $\frac{4}{7} \times 3$	f $\frac{6}{8} \times 5$	g $\frac{2}{9} \times 7$	h $\frac{6}{10} \times 3$
i $\frac{3}{6} \times 5$	j $\frac{4}{5} \times 6$	k $\frac{2}{8} \times 4$	l $\frac{3}{4} \times 7$

2 Use multiplication to work out these calculations. Write your answer as an improper fraction and as a mixed number.

Example

$\frac{2}{3} \times 4 = \frac{2}{3} \times \frac{4}{1} = \frac{2 \times 4}{3 \times 1} = \frac{8}{3} = 2\frac{2}{3}$

a $\frac{2}{5} \times 7$	b $\frac{3}{4} \times 6$	c $\frac{4}{6} \times 4$	d $\frac{2}{3} \times 6$
e $\frac{3}{7} \times 4$	f $\frac{5}{8} \times 5$	g $\frac{4}{9} \times 6$	h $\frac{3}{10} \times 8$
i $\frac{2}{6} \times 5$	j $\frac{3}{8} \times 4$	k $\frac{4}{7} \times 3$	l $\frac{4}{5} \times 6$

Challenge 3

Use multiplication to work out these calculations. Write your answer as an improper fraction and as a mixed number.

a $\frac{6}{7} \times 6$	b $\frac{5}{8} \times 9$	c $\frac{3}{4} \times 12$
d $\frac{4}{9} \times 10$	e $\frac{8}{10} \times 7$	f $\frac{4}{12} \times 6$
g $\frac{7}{8} \times 9$	h $\frac{11}{15} \times 8$	i $\frac{4}{11} \times 6$
j $\frac{6}{12} \times 7$	k $\frac{3}{15} \times 5$	l $\frac{7}{13} \times 8$