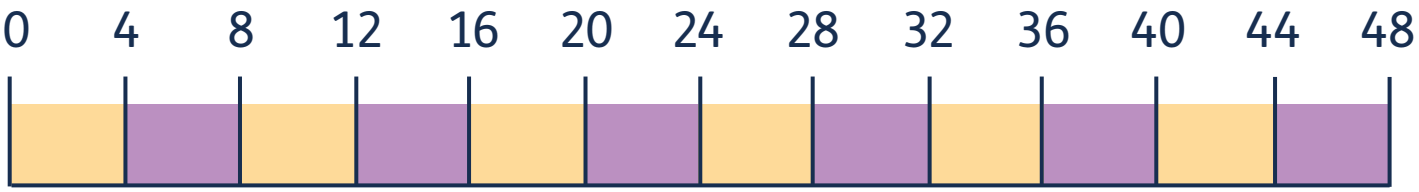
Multiplying and dividing

Answer sheet

MyMaths

Question 1

This counting stick counts in 4s. Can you use it to help you answer these questions?



a $\boxed{4} \times 4 = 16$

b $\boxed{6} \times 4 = 24$

c $\boxed{12} \times 4 = 48$

d $\boxed{2} \times 4 = 8$

e $\boxed{5} \times 4 = 20$

f $\boxed{8} \times 4 = 32$

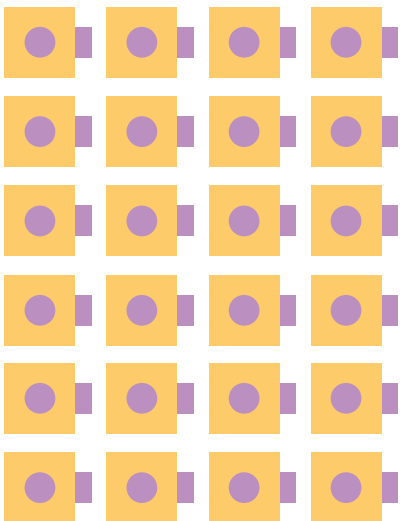
g $\boxed{1} \times 4 = 4$

h $\boxed{9} \times 4 = 36$

Question 2

Can you make four multiplication and division sentences for these arrays?

a



$\boxed{6} \times \boxed{4} = \boxed{24}$

$\boxed{24} \div \boxed{6} = \boxed{4}$

$\boxed{4} \times \boxed{6} = \boxed{24}$

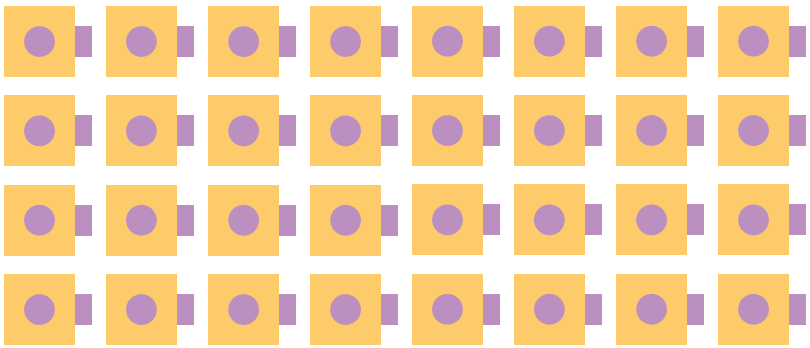
$\boxed{24} \div \boxed{4} = \boxed{6}$

Multiplying and dividing

Answer sheet

MyMaths

b



$4 \times 8 = 32$

$32 \div 4 = 8$

$8 \times 4 = 32$

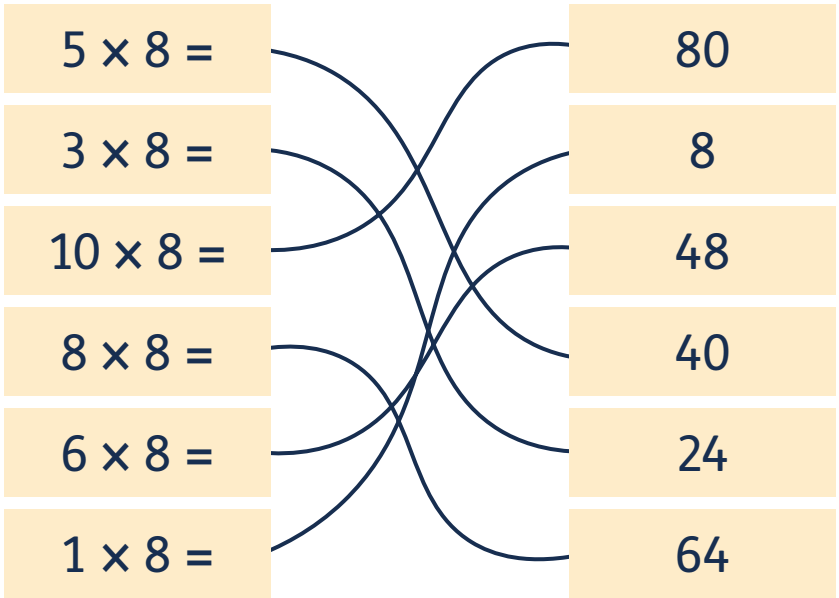
$32 \div 8 = 4$

Question 3

This number line is counting in 8s.
Can you fill in the missing numbers?

Question 4

Match each calculation with its answer.



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to access our WR Summer term booster pack

Multiplying and dividing

Answer sheet

Question 5

Can you complete these multiplication calculations?

a $24 \times 4 =$ 96

	T	O
	2	4
×		4
	9	6
	1	

b $49 \times 8 =$ 392

	H	T	O
		4	9
×			8
	3	9	2
		7	

c $22 \times 8 =$ 176

	H	T	O
		2	2
×			8
	1	7	6
		1	

d $36 \times 8 =$ 288

	H	T	O
		3	6
×			8
	2	8	8
		4	

e $52 \times 4 =$ 208

	H	T	O
		5	2
×			4
	2	0	8

f $17 \times 4 =$ 68

	H	T	O
		1	7
×			4
		6	8
		2	

Multiplying and dividing

Answer sheet

MyMaths

Question 6

Can you complete these division calculations?

a $80 \div 5 =$ 16

	T	O
	1	6
5)	8	0
	3	

b $51 \div 3 =$ 17

	T	O
	1	7
3)	5	1
	2	

c $76 \div 4 =$ 19

	T	O
	1	9
4)	7	6
	3	

d $92 \div 4 =$ 23

	T	O
	2	3
4)	9	2
	1	

e $96 \div 8 =$ 12

	T	O
	1	2
8)	9	6
	1	

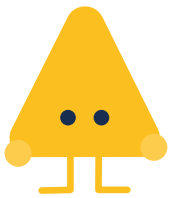
f $91 \div 7 =$ 13

	T	O
	1	3
7)	9	1
	2	

Question 7

Can you answer these word problems?

a



Oranges are sold in bags of 8.
If I buy 7 bags, how many oranges will I have?

56 oranges

Multiplying and dividing

Answer sheet

MyMaths

b

One large pack of sweets contains 32 sweets. How many sweets will 4 friends get if they share them equally?

8 sweets

c

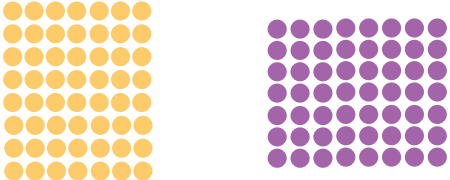
Sabine has 5 rows of buttons with 4 buttons in each row. Pierre has 4 rows of buttons with 5 buttons in each row. Who has more buttons?

They have the same number of buttons! (Children might want to draw arrays to help answer this.)

d

Sara has 56 stickers. She splits them equally among 7 friends. Dom also has 56 stickers. He splits them equally among 8 friends. Whose friends get more stickers?

Sara's friends get 8 stickers. Dom's friends get 7 stickers. Sara's friends get more stickers.



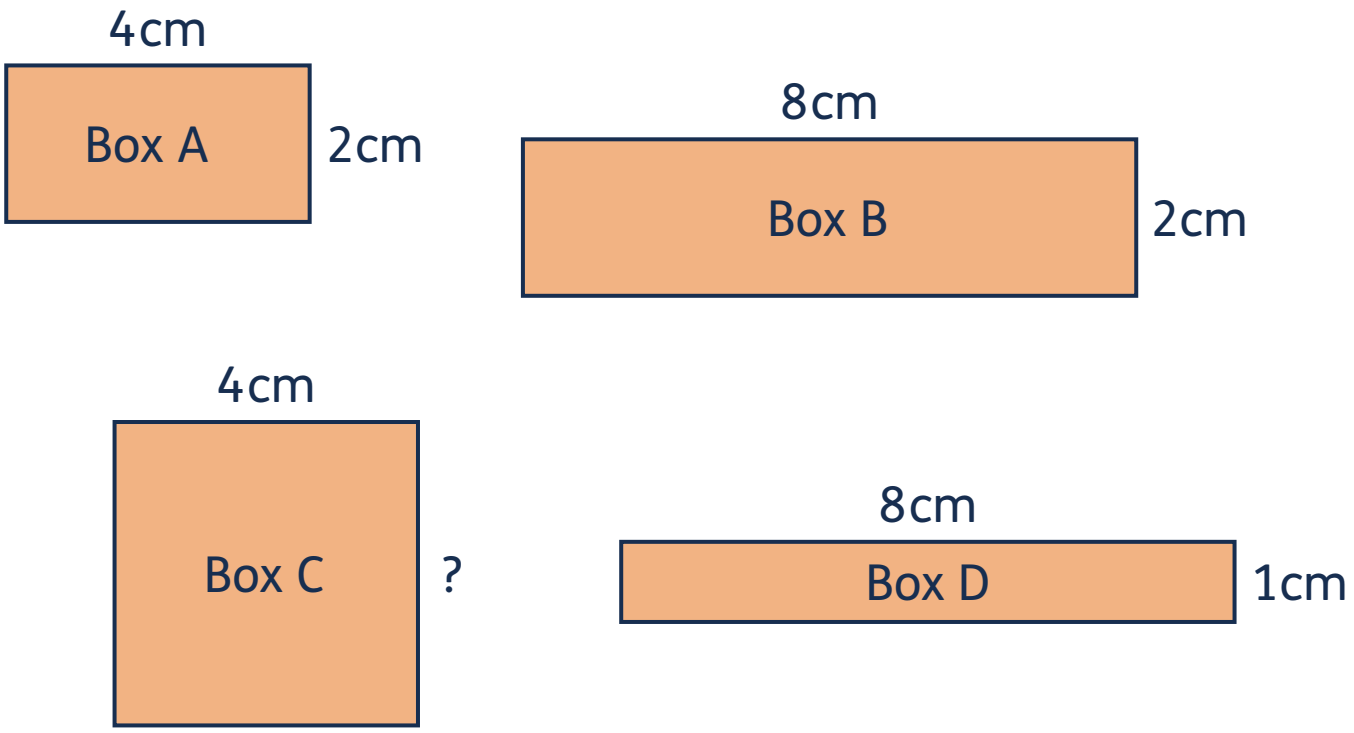
Perimeter and area

Answer sheet

MyMaths

Question 1

Boxes A, B and D are rectangles. Box C is a square.



a	What is the perimeter of Box A?	12cm
b	What is the perimeter of Box D?	18cm
c	What is the length of the missing side for Box C?	4cm
d	What is the perimeter of Box C?	16cm
e	Which box has the longest perimeter?	Box B
f	Which box has the shortest perimeter?	Box A

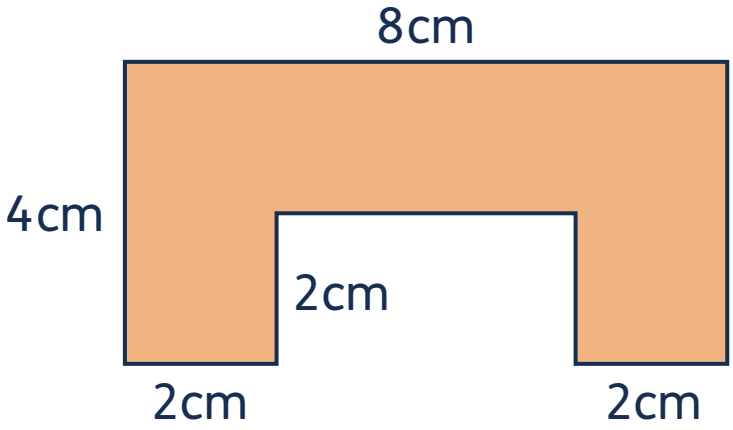
Perimeter and area

Answer sheet

Question 2

a Can you calculate the perimeter of this shape?

28cm



b Can you draw two more rectilinear shapes with the same perimeter?

1 square = 1cm^2

Perimeter and area

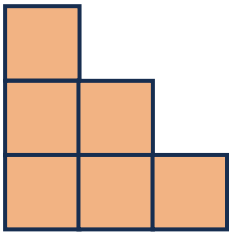
Answer sheet

Question 3

Finding area by counting squares.
What is the area of each shape?

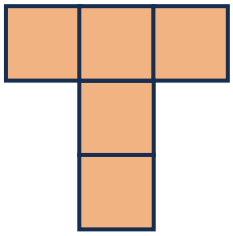
1cm
1cm

a



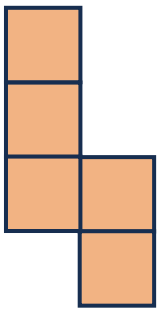
Area = 6 cm^2

b



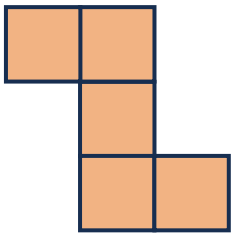
Area = 5 cm^2

c



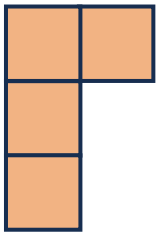
Area = 5 cm^2

d



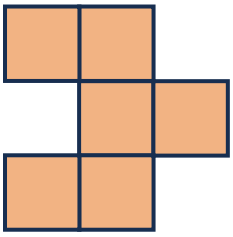
Area = 5 cm^2

e



Area = 4 cm^2

f



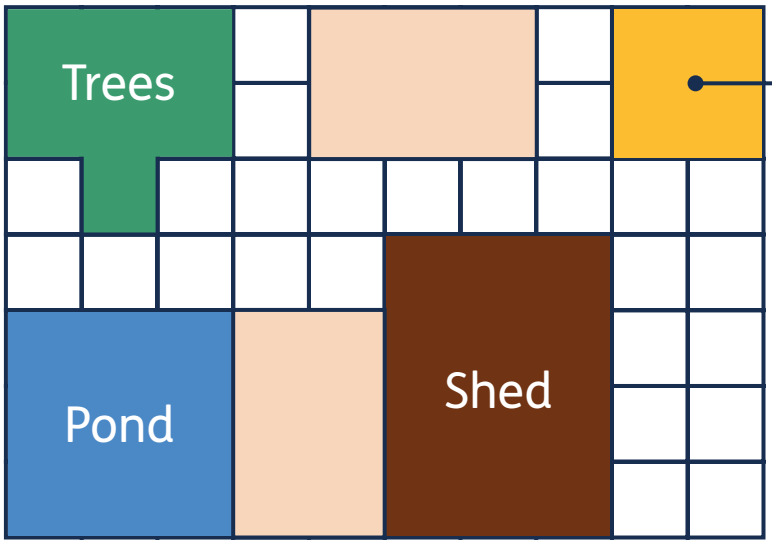
Area = 6 cm^2

Perimeter and area

Answer sheet

Question 4

William and his sister Lauren are designing a new home for each of their pets in the garden. The garden is 10m long and 7m wide. The pet homes need to be 2m wide and 3m long each.



a Can you shade the squares above to show where the two homes could go?

b What is the perimeter of each home? 10m

c What is the maximum number of homes that could fit in the garden? 5

d What area does the shed take up? $12m^2$

e What is the area of the pond? $9m^2$

f If both pets have homes, how much of the garden is still empty? $26m^2$

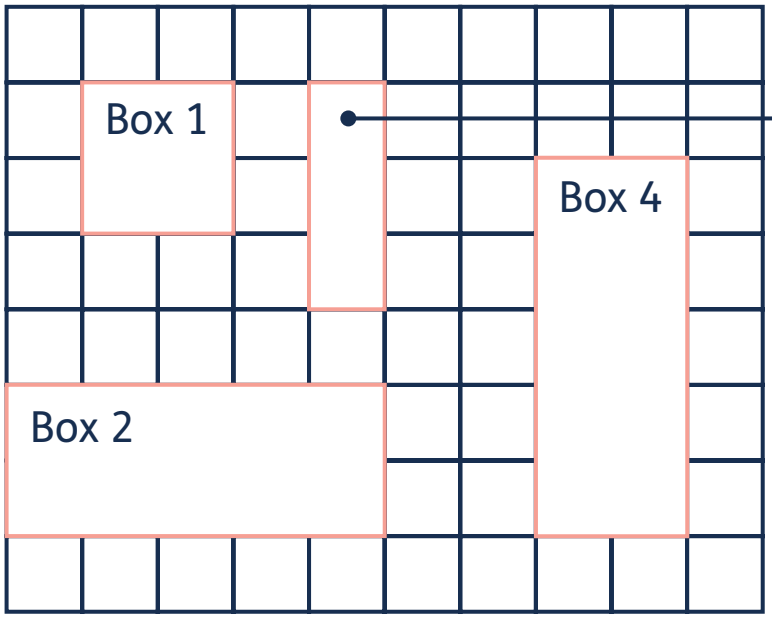
Fractions, perimeter and area

Answer sheet

MyMaths

Question 1

Take a look at the rectangles below, drawn on grid paper. 1 square = 1 cm^2



a What is the area of Box 1?

$4 cm^2$

b What is the area of Box 4?

$10 cm^2$

Using the formula of Length × Width = Area:

c work out the area of Box 2 $5 \times 2 = 10 cm^2$

d what is the difference in area in cm^2 of Boxes 2 and 3? $7 cm^2$

Using the formula Area = Length × Width, what is the area of these boxes?

e

Area = 8 cm^2

f

Area = 9 cm^2

Fractions, perimeter and area

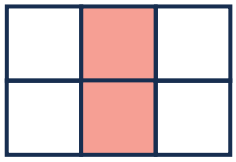
Answer sheet

MyMaths

Question 2

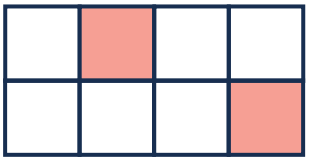
Some parts of these rectangles have been shaded.
Can you show these as fractions?

a



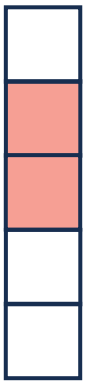
$\frac{2}{6}$

b



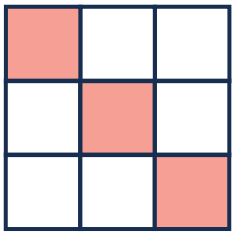
$\frac{2}{8}$

c



$\frac{2}{5}$

d



$\frac{3}{9}$

Can you show an equivalent fraction for each of the above?

a $\frac{1}{3}$

b $\frac{1}{4}$

c $\frac{4}{10}$

d $\frac{1}{3}$

Question 3

Can you match these pairs of equivalent fractions?

A $\frac{1}{4}$ $\frac{6}{9}$ B

C $\frac{3}{8}$ $\frac{9}{24}$ C

D $\frac{2}{5}$ $\frac{4}{16}$ A

E $\frac{6}{12}$ $\frac{6}{15}$ D

E $\frac{18}{36}$ $\frac{2}{3}$ B

Fractions, perimeter and area

Answer sheet

MyMaths

Question 4

Convert these improper fractions and mixed numbers.
Give your answers in their lowest terms.

a $\frac{11}{5} = 2\frac{1}{5}$

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

c $\frac{11}{3} = 3\frac{2}{3}$

d $\frac{13}{6} = 2\frac{1}{6}$

e $\frac{41}{8} = 5\frac{1}{8}$

f $4\frac{1}{2} = \frac{9}{2}$

g $2\frac{4}{7} = \frac{18}{7}$

h $2\frac{2}{9} = \frac{20}{9}$

i $8\frac{1}{8} = \frac{65}{8}$

j $6\frac{3}{5} = \frac{33}{5}$

Can you order the fractions **a** to **j** from the smallest to the largest?

b, d, a, h, g, c, f, e, j, i

Fractions, perimeter and area

Answer sheet

Question 5

a Mikey and Kate were making cookies together. The recipe required $2\frac{3}{5}$ cups of sugar and double the amount of flour.

Can you show how much flour was needed as an improper fraction?

$\frac{26}{5}$

b Gabi needed $3\frac{5}{8}$ metres of material to make a tablecloth. Jessie needed 3 times as much for her table.

How much material did Jessie need?

$10\frac{7}{8}$

c Hannah and Mae went strawberry picking. Hannah picked two and three quarters of a punnet and Mae picked half as many.

How many punnets did they have altogether?

$4\frac{1}{8}$

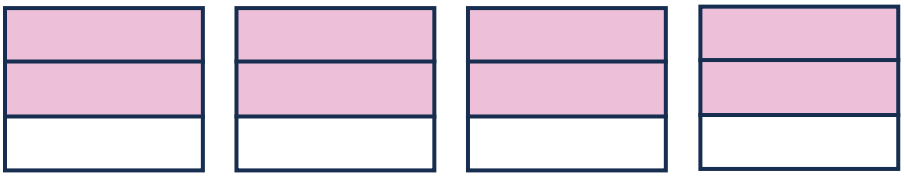
Multiply and divide fractions

Answer sheet

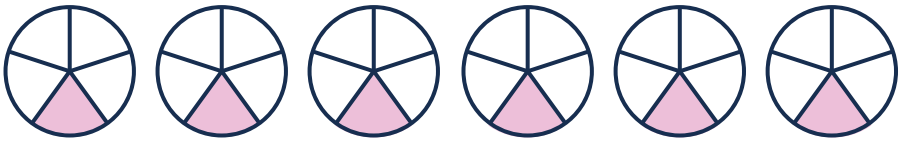
Question 1

Can you use these images to help you complete the calculations?

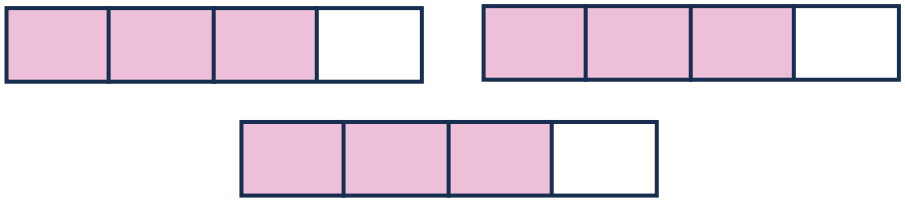
a $\frac{2}{3} \times 4 = \frac{8}{3}$



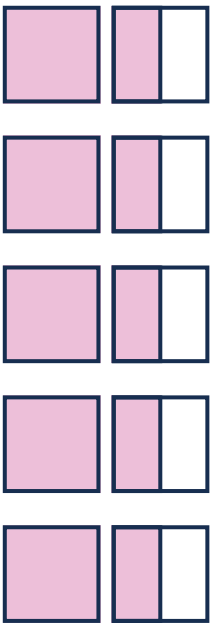
b $\frac{1}{5} \times 6 = \frac{6}{5}$



c $\frac{3}{4} \times 3 = \frac{9}{4}$



d $1\frac{1}{2} \times 5 = 7\frac{1}{2}$



Multiply and divide fractions

Answer sheet

Question 2

Complete these multiplication questions. Give your answers as both an improper fraction and a mixed number.

a $7 \times \frac{1}{5} = \frac{7}{5} = 1\frac{2}{5}$

b $5 \times \frac{2}{8} = \frac{10}{8} = 1\frac{2}{8}$

c $2 \times \frac{4}{5} = \frac{8}{5} = 1\frac{3}{5}$

d $4 \times \frac{6}{7} = \frac{24}{7} = 3\frac{3}{7}$

e $\frac{2}{4} \times 9 = \frac{18}{4} = 4\frac{2}{4}$

f $\frac{1}{5} \times 6 = \frac{6}{5} = 1\frac{1}{5}$

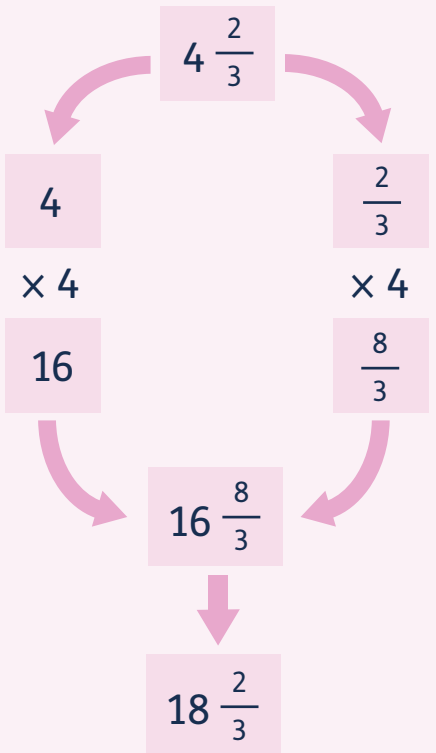
Question 3

We can use a function machine to help multiply mixed numbers by whole numbers.

Look at this example.

What is $4\frac{2}{3} \times 4$?

$18\frac{2}{3}$



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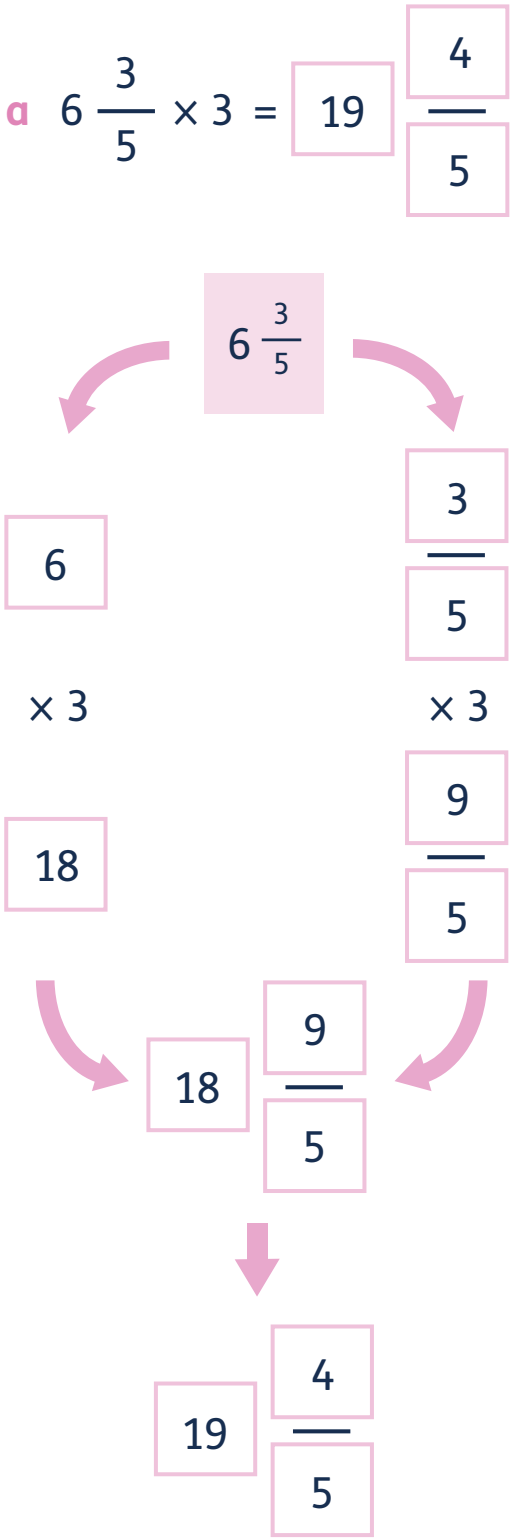
Multiply and divide fractions

Answer sheet

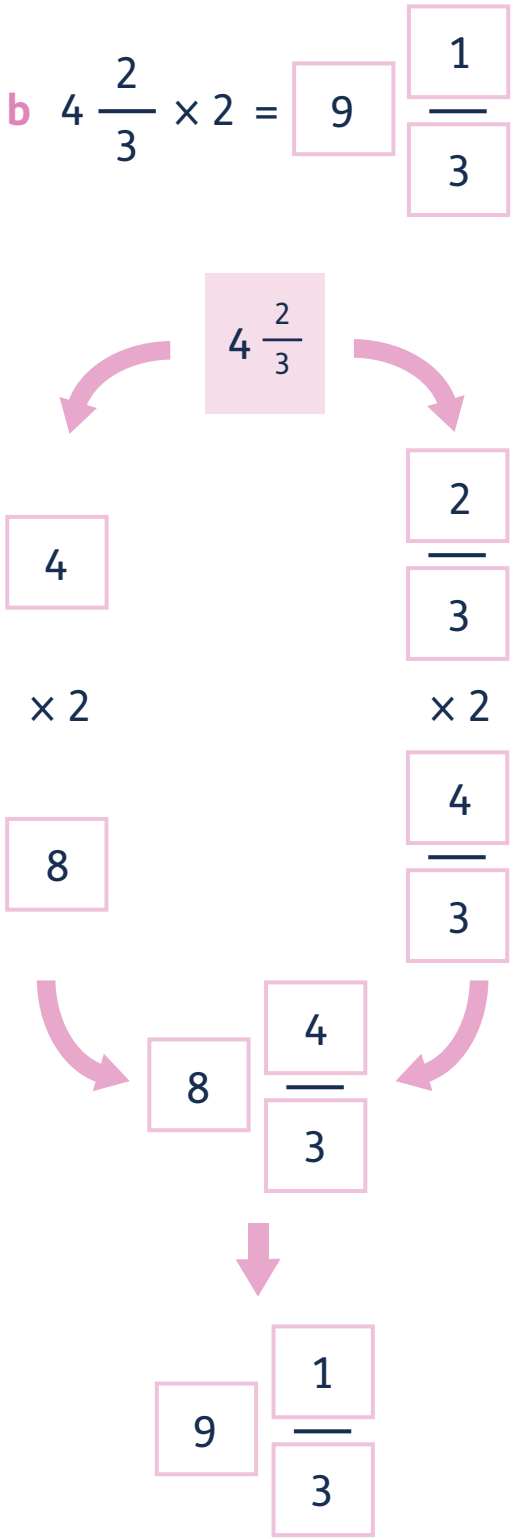
MyMaths

Can you use a function machine to help answer these questions?

a $6\frac{3}{5} \times 3 = \square$



b $4\frac{2}{3} \times 2 = \square$



Multiply and divide fractions

Answer sheet

MyMaths

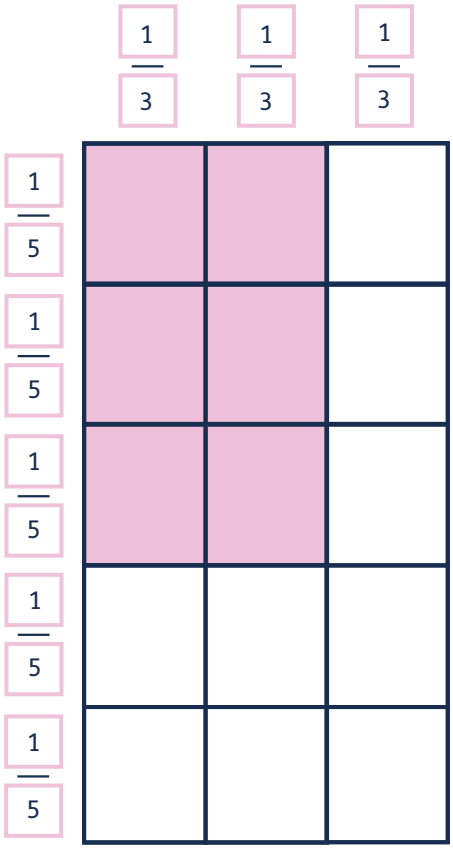
Question 4

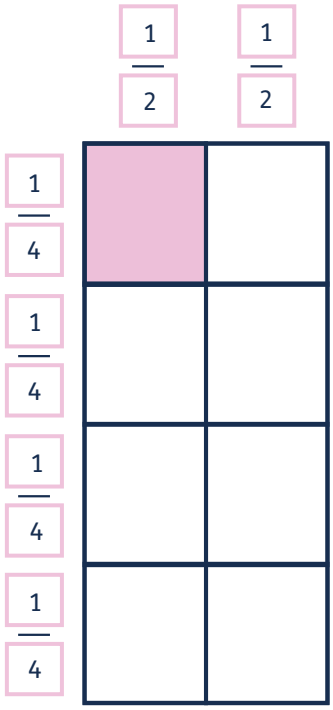
Use these images to help you answer these questions.

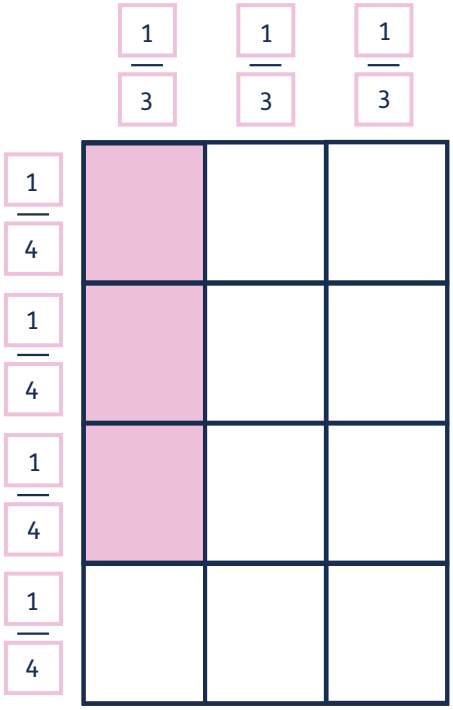
a $\frac{2}{3} \times \frac{3}{5} = \frac{6}{15}$

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

c $\frac{1}{3} \times \frac{3}{4} = \frac{3}{12}$







Question 5

Can you complete these multiplication calculations?
Can you write them in their simplest form?

a $\frac{1}{4} \times \frac{2}{7} = \frac{2}{28} = \frac{1}{14}$

b $\frac{3}{5} \times \frac{1}{6} = \frac{3}{30} = \frac{1}{10}$

Multiply and divide fractions

Answer sheet

MyMaths

c $\frac{1}{2} \times \frac{4}{7} = \frac{4}{14} = \frac{2}{7}$

d $\frac{7}{8} \times \frac{4}{5} = \frac{28}{40} = \frac{7}{10}$

Question 6

Can you complete these division calculations?

a $\frac{2}{3} \div 2 = \frac{1}{3}$

b $\frac{6}{10} \div 6 = \frac{1}{10}$

c $\frac{4}{5} \div 4 = \frac{1}{5}$

d $\frac{8}{9} \div 8 = \frac{1}{9}$

e $\frac{8}{10} \div 4 = \frac{2}{10}$

f $\frac{4}{7} \div 2 = \frac{2}{7}$

g $\frac{9}{14} \div 3 = \frac{3}{14}$

h $\frac{10}{13} \div 5 = \frac{2}{13}$

i $\frac{12}{15} \div 3 = \frac{4}{15}$

j $\frac{6}{8} \div 2 = \frac{3}{8}$

k $\frac{2}{5} \div 2 = \frac{1}{5}$

l $\frac{6}{15} \div 3 = \frac{2}{15}$

Question 7

Can you complete these more challenging division calculations?

a $\frac{1}{3} \div 2 = \frac{1}{6}$

b $\frac{3}{5} \div 4 = \frac{3}{20}$

c $\frac{5}{8} \div 3 = \frac{5}{24}$