Equivalent fractions and comparing fractions

MyMaths

Answer sheet

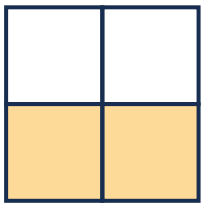
Question 1

Can you shade $\frac{1}{2}$ of each of the shapes and write the equivalent fraction. The first one has been done for you.

a

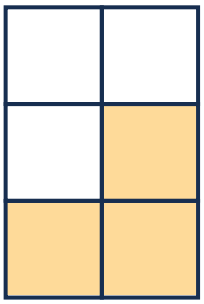
$\frac{1}{2}$

b



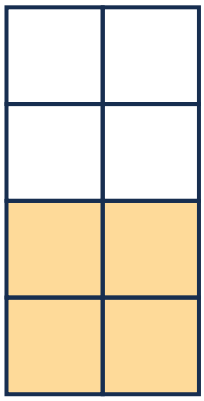
$\frac{2}{4}$

c



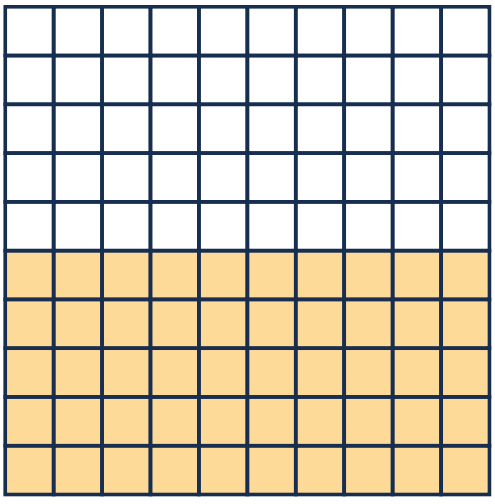
$\frac{3}{6}$

d



$\frac{4}{8}$

e



$\frac{50}{100}$

f Can you find another fraction that is equivalent to $\frac{1}{2}$?

e.g. $\frac{10}{20}$

Equivalent fractions and comparing fractions

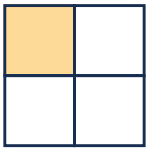
MyMaths

Answer sheet

Question 2

Can you shade $\frac{1}{4}$ of each of the shapes and write the equivalent fraction. The first one has been done for you.

a

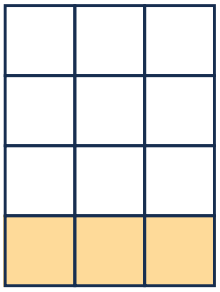


$\frac{1}{4}$

b

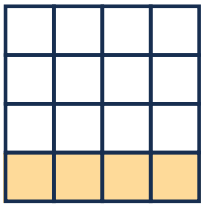
$\frac{2}{8}$

c



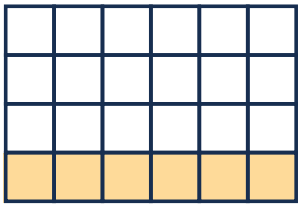
$\frac{3}{12}$

d



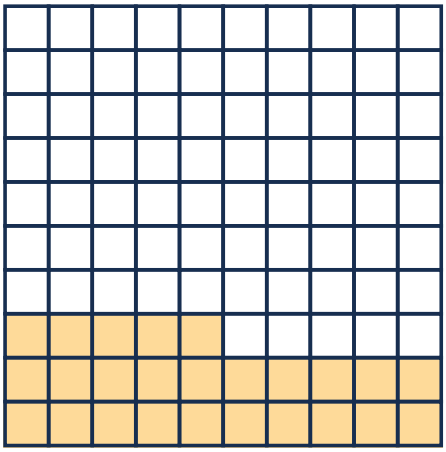
$\frac{4}{16}$

e



$\frac{6}{24}$

f



$\frac{25}{100}$

g Can you find another fraction that is equivalent to $\frac{1}{4}$?

$\frac{8}{32}$

Equivalent fractions and comparing fractions

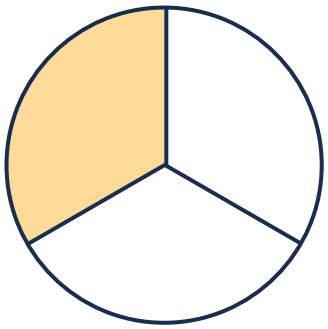
MyMaths

Answer sheet

Question 3

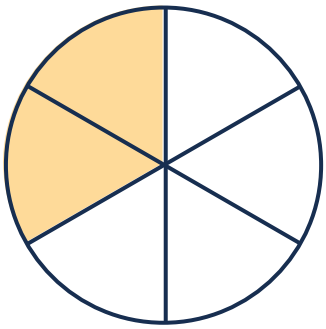
Can you shade $\frac{1}{3}$ of each of the shapes and write the equivalent fraction. The first one has been done for you.

a



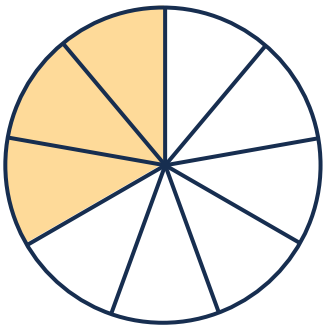
$\frac{1}{3}$

b



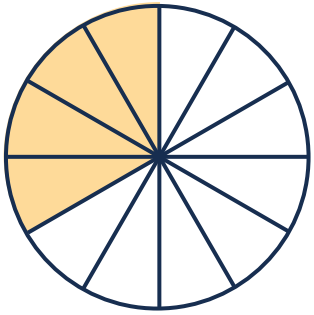
$\frac{2}{6}$

c



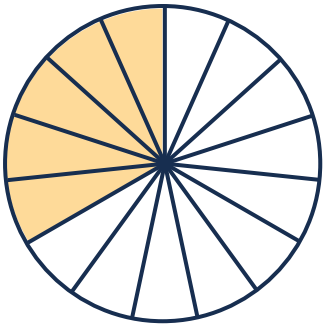
$\frac{3}{9}$

d



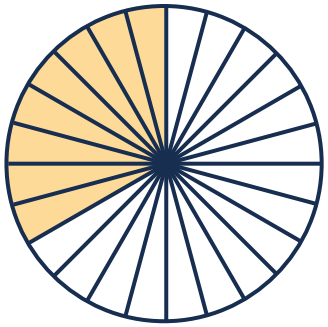
$\frac{4}{12}$

e



$\frac{5}{15}$

f



$\frac{8}{24}$

g Can you find another fraction that is equivalent to $\frac{1}{3}$?

$\frac{6}{18}$

Equivalent fractions and comparing fractions

MyMaths

Question 4

Can you complete this fraction wall?

1											
$\frac{1}{2}$											$\frac{1}{2}$
$\frac{1}{3}$										$\frac{1}{3}$	
$\frac{1}{4}$									$\frac{1}{4}$		
$\frac{1}{5}$								$\frac{1}{5}$			
$\frac{1}{6}$							$\frac{1}{6}$				
$\frac{1}{7}$						$\frac{1}{7}$					
$\frac{1}{8}$					$\frac{1}{8}$						
$\frac{1}{9}$				$\frac{1}{9}$							
$\frac{1}{10}$			$\frac{1}{10}$								
$\frac{1}{11}$		$\frac{1}{11}$									
$\frac{1}{12}$	$\frac{1}{12}$										

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Equivalent fractions and comparing fractions

MyMaths

Answer sheet

Question 5

Can you use the completed fraction wall to help you answer these equivalent fractions questions?

a $\frac{1}{3} = \frac{\boxed{3}}{9}$ b $\frac{1}{3} = \frac{\boxed{2}}{6}$ c $\frac{1}{2} = \frac{\boxed{6}}{12}$ d $\frac{1}{4} = \frac{\boxed{2}}{8}$

e $\frac{1}{\boxed{2}} = \frac{4}{8}$ f $\frac{\boxed{3}}{5} = \frac{6}{\boxed{10}}$ g $\frac{\boxed{3}}{4} = \frac{9}{\boxed{12}}$ h $\frac{2}{\boxed{3}} = \frac{\boxed{6}}{9}$

Question 6

Are these equivalent fraction statements true or false? Can you correct the false statements?

a $\frac{1}{6} = \frac{2}{10}$ True ☐ False ☑ $\frac{1}{6} = \frac{2}{12}$

b $\frac{1}{3} = \frac{2}{6}$ True ☑ False ☐

c $\frac{6}{12} = \frac{1}{2}$ True ☑ False ☐

d $\frac{6}{8} = \frac{2}{4}$ True ☐ False ☑ $\frac{6}{8} = \frac{3}{4}$

e $\frac{1}{3} = \frac{3}{12}$ True ☐ False ☑ $\frac{1}{3} = \frac{4}{12}$

Equivalent fractions and comparing fractions

MyMaths

Answer sheet

Question 7

Can you write these equivalent fractions in the simplest possible form?

a $\frac{25}{100} = \frac{1}{4}$

b $\frac{8}{10} = \frac{4}{5}$

c $\frac{50}{100} = \frac{1}{2}$

d $\frac{9}{12} = \frac{3}{4}$

e $\frac{10}{15} = \frac{2}{3}$

f $\frac{7}{14} = \frac{1}{2}$

g $\frac{3}{9} = \frac{1}{3}$

h $\frac{12}{20} = \frac{3}{5}$

Question 8

Circle which fraction is **greater**.

a $\frac{3}{8}$ or $\frac{1}{8}$

b $\frac{2}{6}$ or $\frac{4}{6}$

c $\frac{1}{4}$ or $\frac{1}{8}$

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

Equivalent fractions and comparing fractions

MyMaths

Answer sheet

Question 9

Circle which fraction is **smaller**.

a $\frac{3}{5}$ or $\frac{1}{5}$

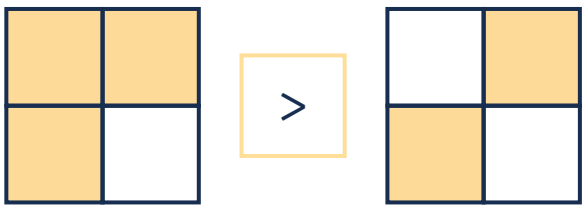
b $\frac{1}{3}$ or $\frac{2}{3}$

c $\frac{1}{2}$ or $\frac{1}{3}$

d $\frac{1}{6}$ or $\frac{1}{4}$

Question 10

Use <, > or = to compare these fractions.

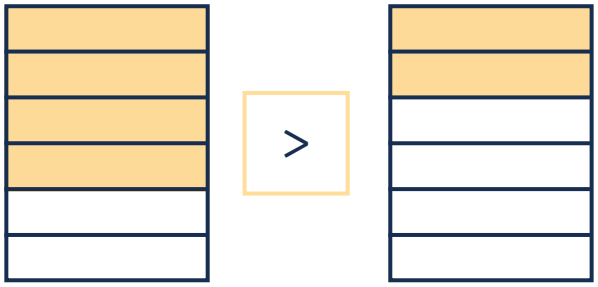
a  >

b  <

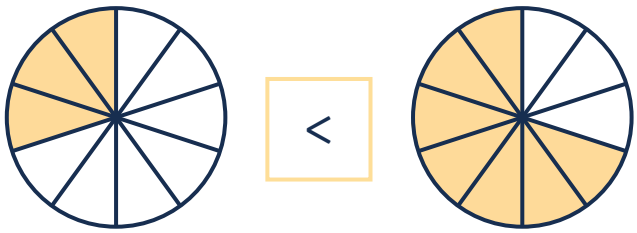
Question 11

Colour in these fractions so that the statements are true.

a e.g.

 >

b e.g.

 <

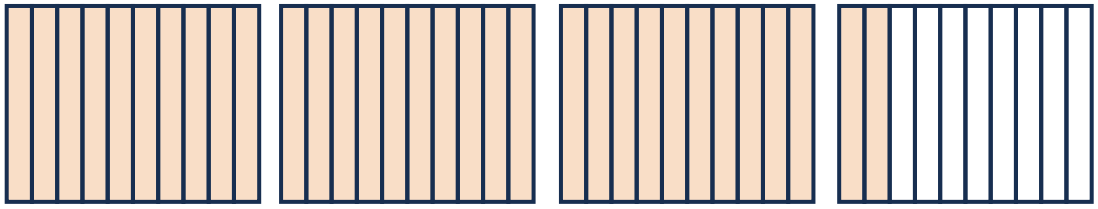
Decimals: tenths and hundredths

Answer sheet

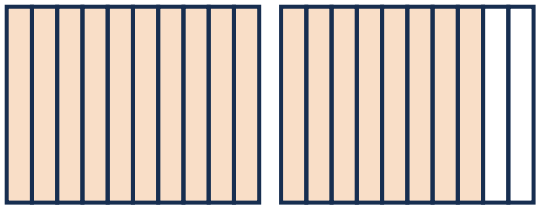
MyMaths

Question 1

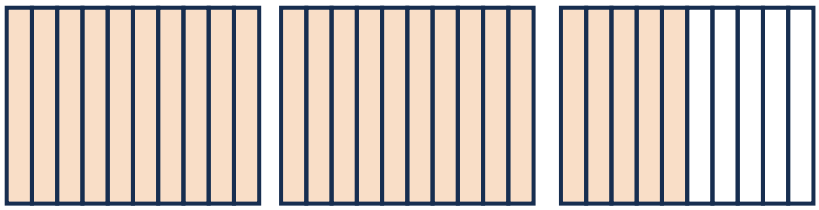
What numbers are shown by these diagrams? Each large rectangle is 1 whole number. The first one has been done for you.

a 

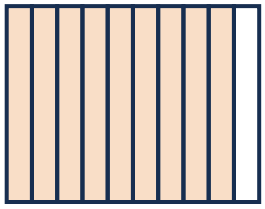
3.2

b 

1.8

c 

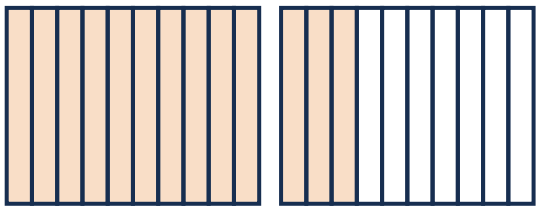
2.5

d 

0.9

e 

0.1

f 

1.3

Decimals: tenths and hundredths

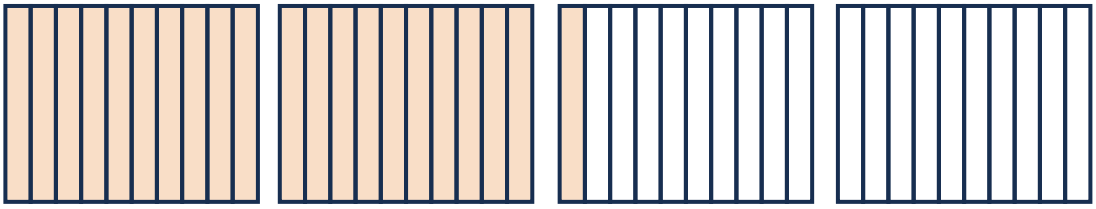
Answer sheet

MyMaths

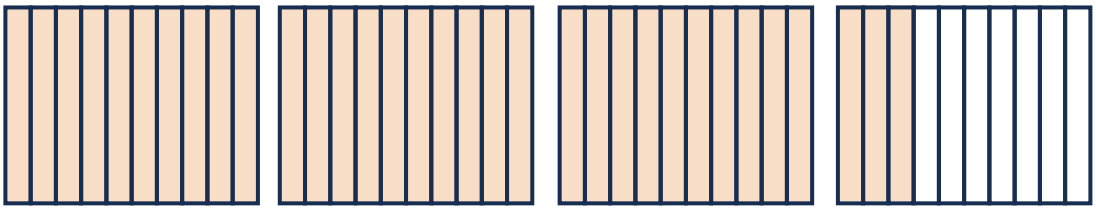
Question 2

Can you shade these shapes to make the numbers shown?
The first one has been done for you.

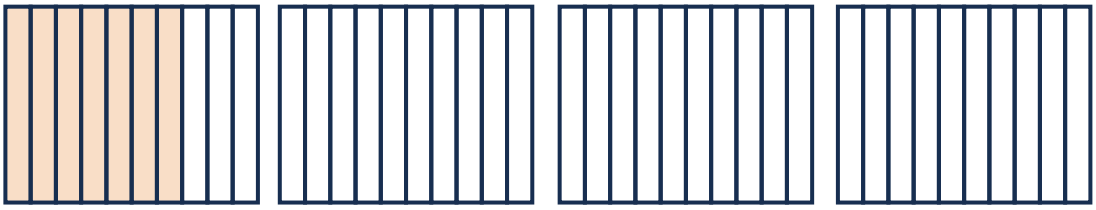
a 2.1



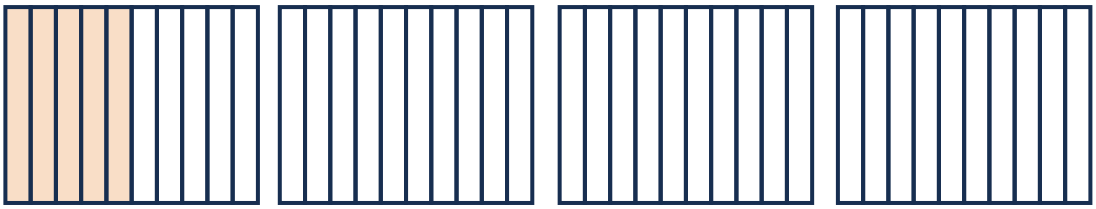
b 3.3



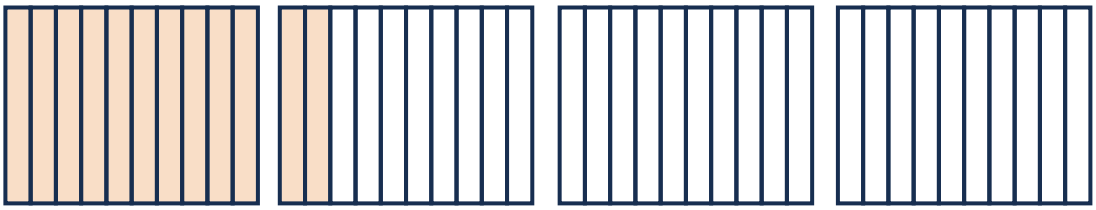
c 0.7



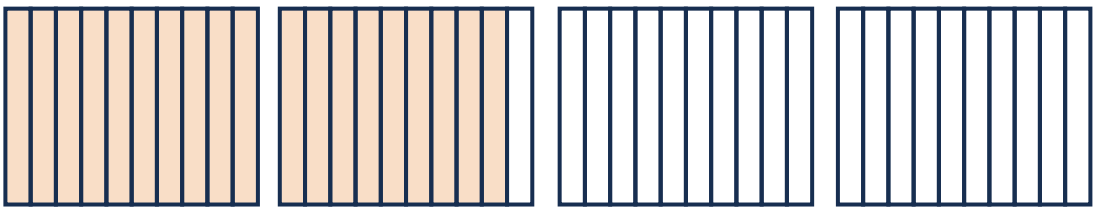
d 0.5



e 1.2



f 1.9



Decimals: tenths and hundredths

Answer sheet

MyMaths

Question 3

Look at these numbers written in words. Can you write them in numerals in the place value grid?

a Four point eight

T	O	t
	4	8

b Thirteen point one

T	O	t
1	3	1

c Zero point six

T	O	t
	0	6

d Ten point four

T	O	t
1	0	4

e Nought point three

T	O	t
	0	3

f Twenty point nine

T	O	t
2	0	9

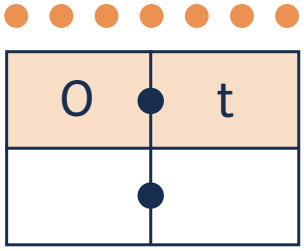
Decimals: tenths and hundredths

Answer sheet

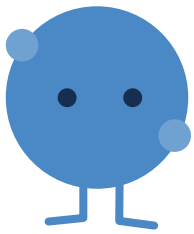
MyMaths

Question 4

Can you solve this problem?



Hannah has seven place value counters. Her teacher asks her to use all of the counters to make a number that is greater than three, but less than seven. She must put at least one counter in each place value column. What numbers could she make?



Hannah could make 3.4, 4.3, 5.2 or 6.1

Question 5

Can you complete these calculations?

a 50 ÷ 10 = 5

b 30 ÷ 10 = 3

c 22 ÷ 10 = 2.2

d 87 ÷ 10 = 8.7

e 35 ÷ 10 = 3.5

f 47 ÷ 10 = 4.7

g 98 ÷ 10 = 9.8

h 24 ÷ 10 = 2.4

i 8 ÷ 10 = 0.8

j 1 ÷ 10 = 0.1

k 6 ÷ 10 = 0.6

l 3 ÷ 10 = 0.3

Decimals: tenths and hundredths

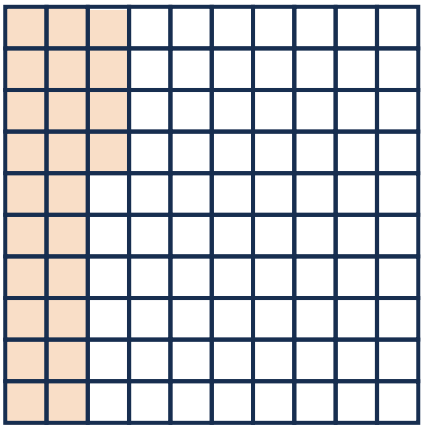
Answer sheet

MyMaths

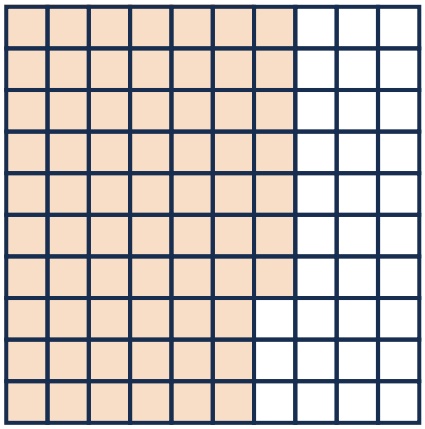
Question 6

Can you use the grid to show these numbers?

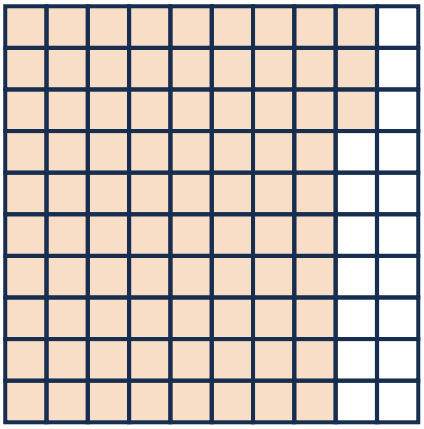
a 24 hundredths



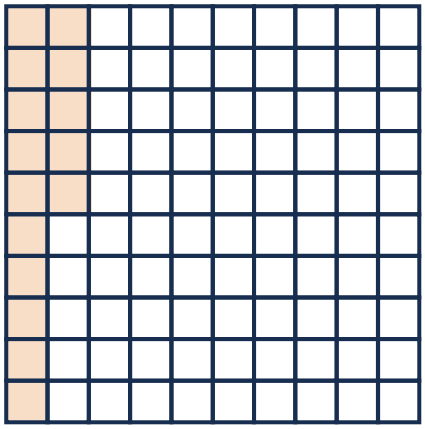
b 0.67



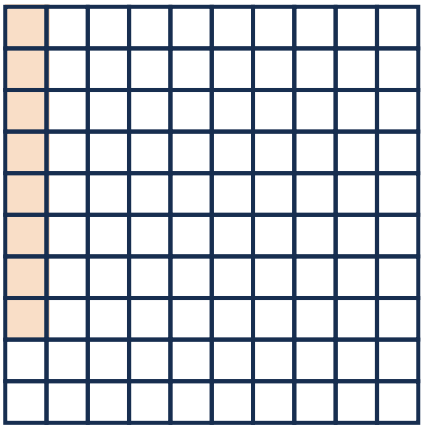
c zero point eight three



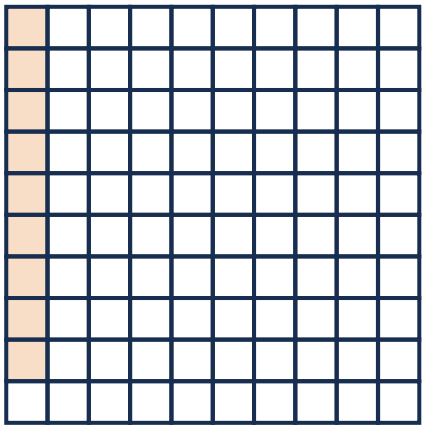
d fifteen hundredths



e 0.08



f 9 hundredths



Decimals: tenths and hundredths

Answer sheet

MyMaths

Question 7

Look at these numbers written in words. Can you write them in numerals in the place value grid?

a Forty-three point eight six

T	O	t	h
4	3	8	6

b Zero point zero five

T	O	t	h
	0	0	5

c Nine point zero nine

T	O	t	h
	9	0	9

d Ten point three two

T	O	t	h
1	0	3	2

e Twelve point two one

T	O	t	h
1	2	2	1

f Eight point eight

T	O	t	h
	8	8	

Decimals: tenths and hundredths

Answer sheet

MyMaths

Question 8

Can you solve this problem?

A group of 10 friends go out for lunch. The bill is £75. They split the bill equally. How much does each friend pay?

£ 7.50

Question 9

Ben thinks there are at least 5 different ways he can partition the number 0.51. Is he right? Can you prove your answer?

Ben is right.

You could say 0.51 is: 5 tenths and 1 hundredth, 4 tenths and 11 hundredths, 3 tenths and 21 hundredths, 2 tenths and 31 hundredths, 1 tenth and 41 hundredths, or 0 tenths and 51 hundredths.

Question 10

Can you complete these calculations?

a 29 ÷ 100 = 0.29 **b** 92 ÷ 100 = 0.92 **c** 12 ÷ 100 = 0.12

d 80 ÷ 100 = 0.8 **e** 18 ÷ 100 = 0.18 **f** 5 ÷ 100 = 0.05

g 15 ÷ 100 = 0.15 **h** 7 ÷ 100 = 0.07 **i** 1 ÷ 100 = 0.01

Decimals

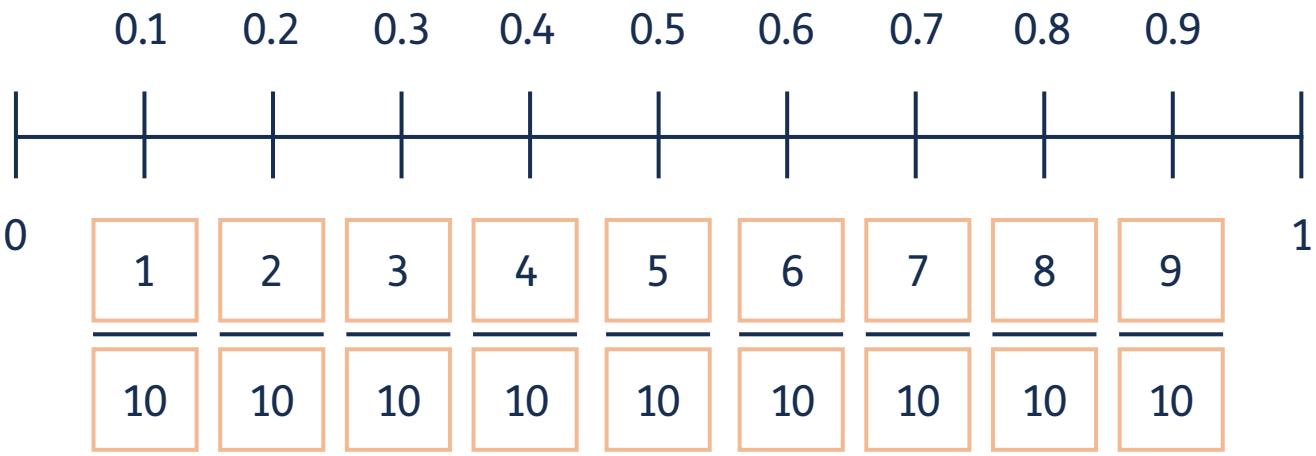
Answer sheet

MyMaths

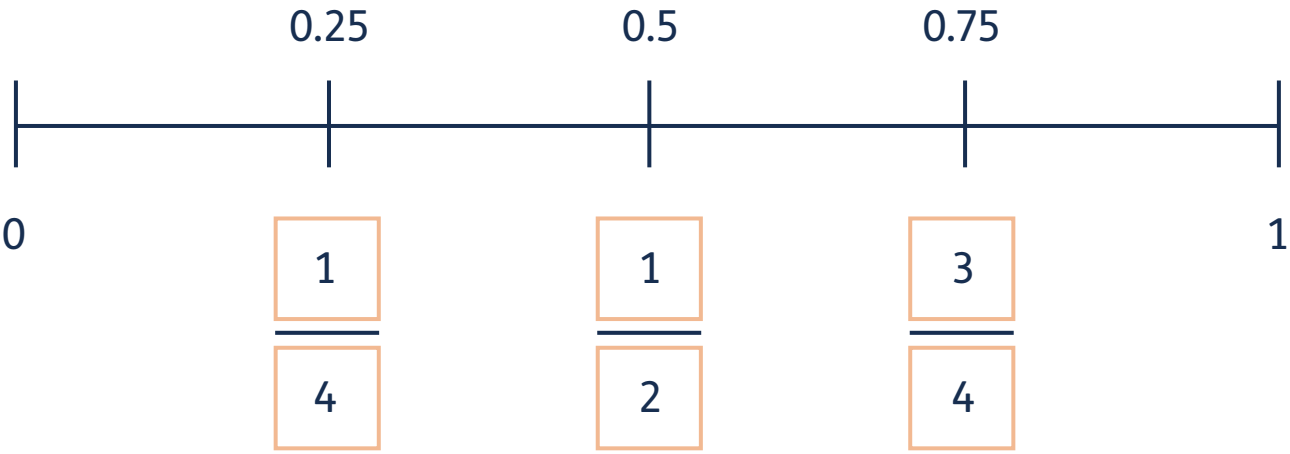
Question 1

Can you write the decimal values on these number lines?

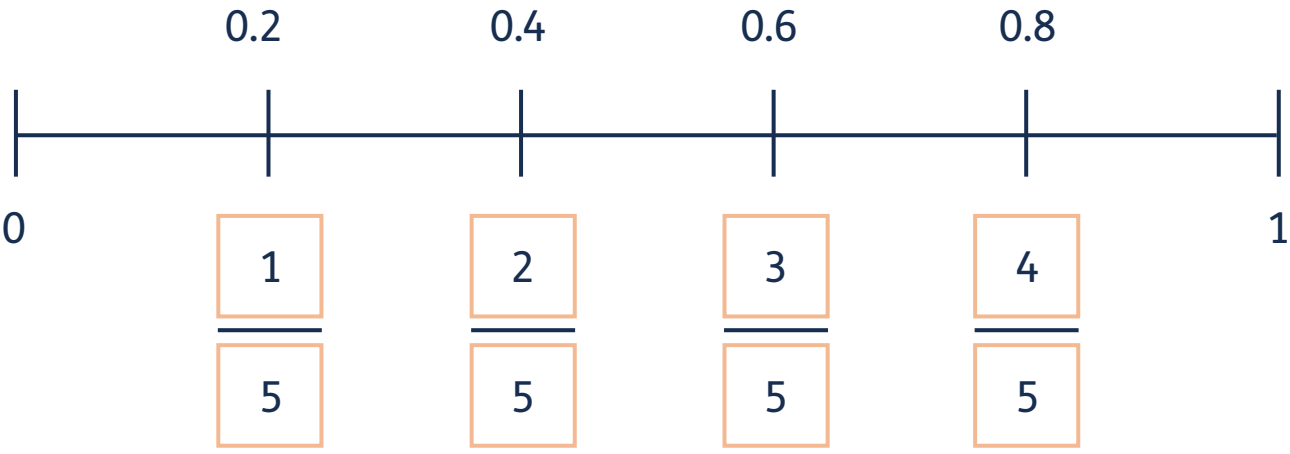
a



b



c



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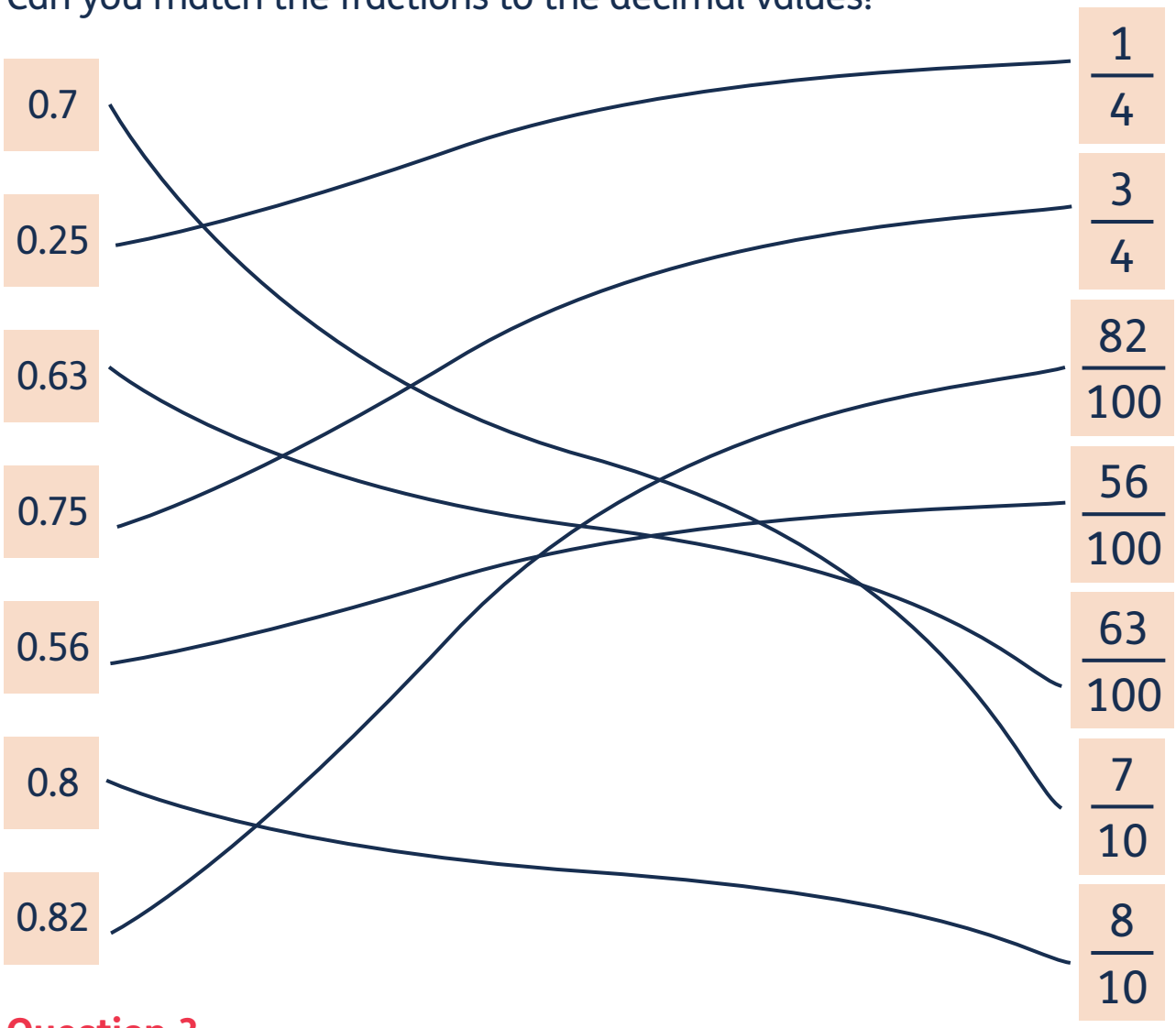
Decimals

Answer sheet

MyMaths

Question 2

Can you match the fractions to the decimal values?



Question 3

Round these numbers to the nearest whole number

a	3.42	3	**b**	7.83	8	**c**	1.55	2
d	6.91	7	**e**	9.23	9	**f**	8.88	9
g	6.19	6	**h**	1.45	1	**i**	4.25	4

Decimals

Answer sheet

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Question 4

Can you round these numbers to the nearest tenth?

a 7.62 — 7.6

b 2.86 — 2.9

c 3.44 — 3.4

d 5.05 — 5.1

e 9.99 — 10

f 7.77 — 7.8

g 4.74 — 4.7

h 8.15 — 8.2

i 6.79 — 6.8

Decimals

Answer sheet

MyMaths

Question 5

Use the place value chart, to show these numbers.

a 7 ones, 6 tenths, 1 hundredth and 2 thousandths

O	t	h	th
7	6	1	2

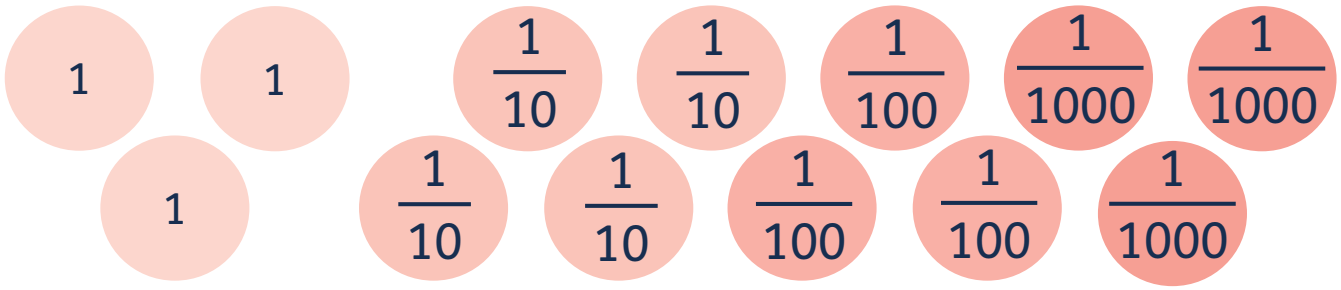
b five wholes, four tenths, five hundredths and four thousandths

O	t	h	th
5	4	5	4

c $7\frac{41}{1000}$

O	t	h	th
7	0	4	1

d



O	t	h	th
3	4	3	3

Decimals

Answer sheet

MyMaths

Question 6

Class 5 had a swimming gala. The final time results for the 50 m race are in the table below

Name	Time in seconds
Fathima	47.433
Kerenza	48.291
Julio	48.296
Hamid	46.735
Selena	47.119
Iris	49.121
Joshua	49.345
Mario	48.552
Isobel	48.993
Theo	46.983

a Who was the nearest to finishing at 47 seconds?

Selena

b Who was closest to 49 seconds?

Isobel

c What is the difference in the fastest and the slowest time?

2.610 s

d Can you order the children from the fastest (1) to the slowest (10) times?

1	2	3	4	5
Hamid	Theo	Selena	Fathima	Kerenza
6	7	8	9	10
Julio	Mario	Isobel	Iris	Joshua

Algebra

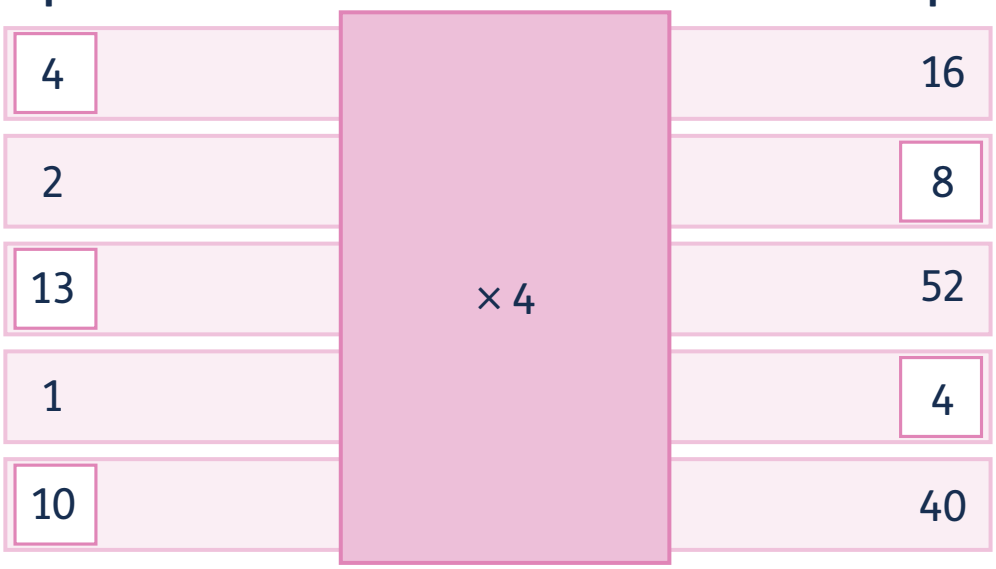
Answer sheet

MyMaths

Question 1

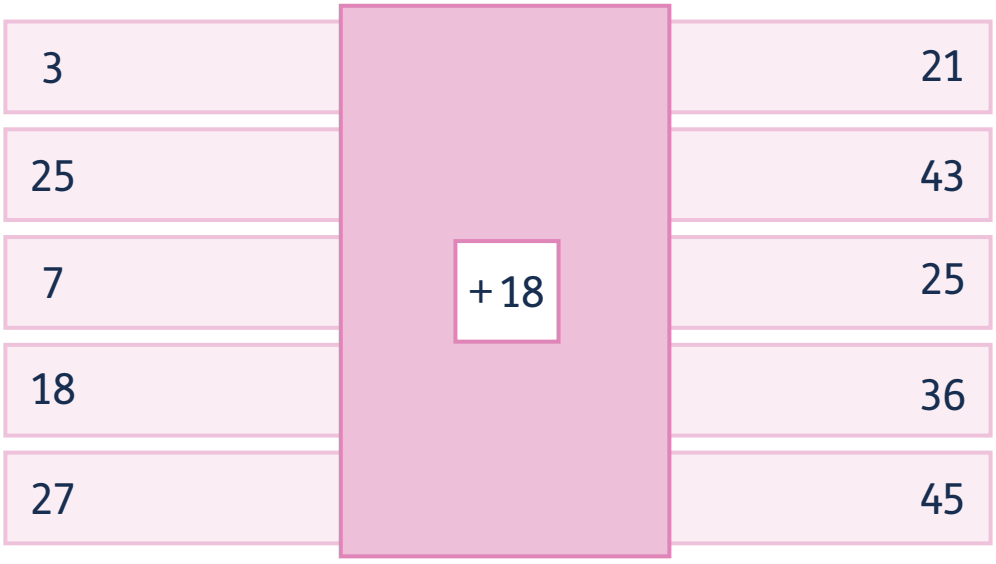
Here are two function machines. Can you fill in the missing boxes and complete the formula using *i* for Input and *o* for Output?

a



Formula: $4i = o$ $i \times 4 = o$

b



Formula: $i + 18 = o$

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OXFORD

Algebra

Answer sheet

MyMaths

Question 2

Work out the value of these expressions.

a	$a + 1$	for $a = 9$	10
b	$b - 3$	for $b = 12$	9
c	$c \times 6$	for $c = 4$	24
d	$\frac{d - 3}{2}$	for $d = 17$	7
e	$e + 11$	for $e = 23$	34
f	$5 \times f$	for $f = 7$	35
g	$g + 15$	for $g = 3$	18
h	$h \times 4$	for $h = 16$	64

Algebra

Answer sheet

MyMaths

Question 3

Work out the value of the following expressions.

a	$n \times 3 = 12$	n =	4
b	$5 = m - 2$	m =	7
c	$q - 6 = 9$	q =	15
d	$y \div 5 = 9$	y =	45
e	$t + 16 = 18$	t =	2
f	$14 + g = 29$	g =	15
g	$p = 3 + 1$	p =	4
h	$21 = s \times 7$	s =	3

Algebra

Answer sheet

MyMaths

Question 4

Neil and Gayle were going to the cinema.

They have booked standard seats but want to upgrade to reclining seats. The cost to upgrade is £1.61

The standard seat costs s and the reclining seat (r)costs £11.10

a Complete the equation that describes this.

r = £ 11.10 = s + £ 1.61

b How much does the standard seat cost? s = £ 9.49

Question 5

You are preparing porridge for p people. Each bag of oats for the porridge serves 5 people. You need 4 extra bags to be on the safe side.

Choose the expression below for the number of bags of oats you need to buy.

- ✓ $\frac{p}{5} + 4$
- ☐ $5p - 4$
- ☐ $\frac{p}{5} - 4$
- ☐ $5p + 4$

Algebra

Answer sheet

MyMaths

Question 6

Fill in the gaps in the table below:

	$x = 4$	$x = 7$	$x = 32$	$x = 21$
$3x + 4$	16	25	100	67
$\frac{2x}{2}$	4	7	32	21
$x - 3$	1	4	29	18
$88 - 2x$	80	74	24	46
$1 + 6x$	25	43	193	127

Algebra

Answer sheet

MyMaths

Question 7

Hamza was having a water party for his birthday.

For the party he needed the following:

- 1 squirter per child
- 6 balloons per child
- 2 towels per child with 5 spare

Write down the formula for squirters (s), balloons (b) and towels (t).
Use c for the number of children.

$s =$ $1c$ $b =$ $6c$ $t =$ $2c + 5$

There are 15 children at the party.
How many of each item will Hamza need ?

squirters	balloons	towels
15	90	35