	Learning objective	Main teaching	Activity	Resources	Vocabulary
	LO to use mathematical	Where in life do we use decimals? How are they useful? Can you think of when we use decimals	Look below this plan for today's independent activities. It is really important that you	Worksheets saved	Decimal
	vocabulary when working with	down to thousandths? Weight in kg? Distance in km? How does this help?	complete them, even if you think you know all of this, because it shows decimals in lots of	below	Tenth
	decimals	Write a list of as many examples of decimals in use	different ways and you will need this information in the next few lessons.	Pencil	Hundredth
Monday		in real life as you can. You might like to research on the internet.	Mark your work when you are finished.	Maths paper	Thousandth
			,		Decimal point
					Whole
					Represents
	LO to explore	Count out loud in money intervals: 10p? 20p? 50p	Scroll down this document to find the	Worksheets	Decimal
	numbers between two whole	etc. Write this down: £0.10 £0.20 £0.30 etc	independent tasks for Tuesday. Complete the worksheet based on decimals to 2 decimal	Pencil	Fraction Whole
	numbers	Now try counting in 5ps. Write the pattern.	places.		Tenths
Tuesday		Further challenge: try 1ps? 2ps? 4p? £1.20s?		Maths	Hundredths
		No. of the Post of the Park	Mark your work when you are finished.	paper	Thousandths
		Now watch: Decimals to 2dp https://vimeo.com/485432781			
	LO to understand	Count back and forward in 0.1s. Practise this saying	Work through your worksheet called 'Y6	Worksheets	Decimal
	the link between decimals and	'one tenth, two tenths etc' and then '0.1, 0.2 etc' What happens when you reach 1 whole? Can you	Wednesday independent task' Read the questions carefully and you might find it useful	Maths	Fraction Numerator
	fractions	count backwards from 10 in tenths?	to draw a place value grid in your book before	paper	Denominator
Wednesday			you start: H T U . t h th tth		Whole
		Now watch: Decimals as fractions		Pencil	Tenths
		https://vimeo.com/490693175			Hundredths
					Thousandths

Thursday	LO to find and understand numbers between two decimal numbers	Recap the counting from previous days. What comes between 0.15 and 0.16? Are there any numbers between? Practice counting from 0.150 in thousandths: 0.150, 0.151 etc Now watch: Understanding thousandths https://vimeo.com/485550430	Scroll down to find your worksheet: 'Y6 Thursday independent task'. You may choose 10 questions from A or B to complete but read them carefully first (and read the example) so that you make a choice based on how confident you feel.	Worksheets Pencil Maths paper	Decimal Fraction Numerator Denominator Whole Tenths Hundredths Thousandths
Friday	LO to solve problems using decimals to 3dp	Now watch: Thousandths as decimals https://vimeo.com/487196408	Visit this website. Recap your learning from this week by completing the quiz, watching the videos, reading the information and doing the activity at the end. https://www.bbc.co.uk/bitesize/articles/zt4wcmn If you have a willing adult or sibling (or maybe a friend over video call?) have a go at playing this game: Spiralling Decimals! https://nrich.maths.org/10326	Video link Spiralling Decimals game BBC Bitesize link Paper Pencils	Decimal Fraction Numerator Denominator Whole Tenths Hundredths Thousandths

^{*}Scroll down for worksheets, activities and answers*

Monday's independent activity



Which number is represented on the place value chart?

Ones	Tenths	Hundredths
	<u>a</u>	0.01
0	1	2

There are ____ ones, ____ tenths and ____ hundredths.

The number is ____

Represent the numbers on a place value chart and complete the stem sentences.





0.07

1.26



Make the numbers with place value counters and write down the value of the underlined digit.

3.04

4.44

43.34



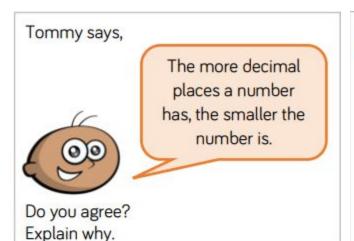
0.76 = 0.7 + 0.06 = 7 tenths and 6 hundredths. Fill in the missing numbers.

0.83 = ____ + 0.03 = ____ and 3 hundredths.

0.83 = 0.7 + ____ = 7 tenths and _____

How many other ways can you partition 0.83?

Monday Y6 independent work



Alex says that 3.24 can be written as 2 ones, 13 tenths and 4 hundredths.

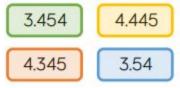
Do you agree?

How can you partition 3.24 starting with 2 ones?

How can you partition 3.24 starting with 1 one?

Think about exchanging between columns.

Four children are thinking of four different numbers.



Teddy: "My number has four hundredths."

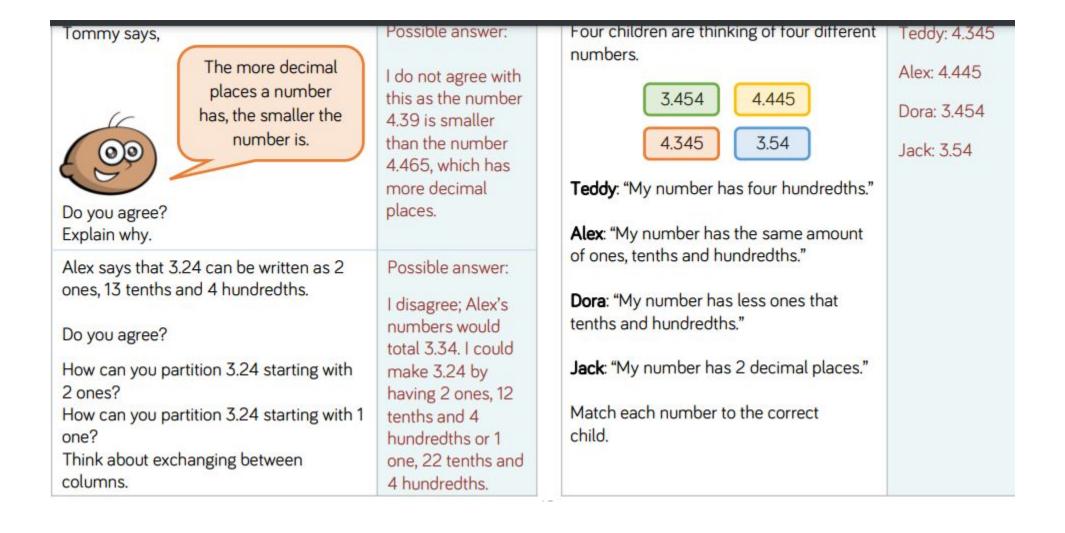
Alex: "My number has the same amount of ones, tenths and hundredths."

Dora: "My number has less ones that tenths and hundredths."

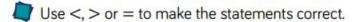
Jack: "My number has 2 decimal places."

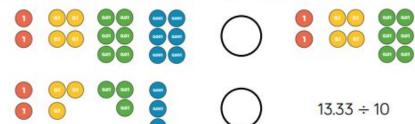
Match each number to the correct child.

Y6 Monday Answers

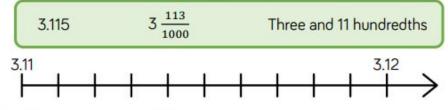


Y6 Tuesday independent work





Place the numbers in ascending order on the number line.



- Place in descending order.
 - 0.123
 0.321
 0.231
 0.103
 - 3.2 km 3.21 km 3.212 km 3202 m
 - 65.394
 65.309
 63.999
 65.493

Dexter is measuring a box of chocolates with a ruler that measures in centimetres and millimetres.



He measures it to the nearest cm and writes the answer 28 cm.
What is the smallest length the box of chocolates could be?

Whitney is thinking of a number.



Rounded to the nearest whole her number is 4 Rounded to the nearest tenth her number is 3.8 Write down at least 4 different numbers that she could be thinking of.

Y6 Tuesday Answers

Dexter is measuring a box of chocolates with a ruler that measures in centimetres and millimetres.



He measures it to the nearest cm and writes the answer 28 cm.

What is the smallest length the box of chocolates could be?

Smallest: 27.5 cm

Whitney is thinking of a number.



Rounded to the nearest whole her number is 4 Rounded to the nearest tenth her number is 3.8 Write down at least 4 different numbers that she could be thinking of. Possible answers: 3.84 3.83 3.82 etc.

Some children might include answers such as 3.845 A number between 11 and 20 with 2 decimal places rounds to the same number when rounded to one decimal place and when rounded to the nearest whole number?

What could this be? Is there more than one option? Explain why. The whole number can range from 11 to 19 and the decimal places can range from ___.95 to ___.99

Can children explain why this works?

Y6 Wednesday Independent task



Complete the sentences.



********	Г
0.1	



The whole has been divided into



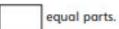








0.1



Each part is worth

This	is	equivalent	to
		The state of the s	

b)



The whole has been divided into

equal	parts
 34,445,445	

Each part is worth

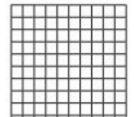
(2) s	N 6530 SW 32	Г
7	parts out of	1

are shaded.

This	is	equival	ent	te
------	----	---------	-----	----



a) Shade 0.17 of the hundred square.



Complete the sentence.

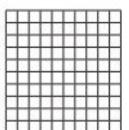
ı

parts out of

f	1	are	shaded
١.		ui c	Silude

Write 0.17 as a fraction.

b) Shade 0.2 of the hundred square.



Complete

 	-
	п
	- 1
	- 1
	н
	-1
	-1

Write 0.2







0.2

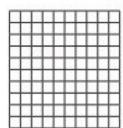
0.1

Use the bar models to fill in the missi

Fill in the missing numbers.

a)
$$0.54 = \frac{100}{100} = \frac{50}{50}$$

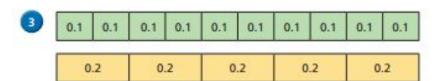
b) Shade 0.2 of the hundred square.



Complete the sentence.

parts out of are shaded.

Write 0.2 as a fraction in its simplest form.



Use the bar models to fill in the missing numbers.

Fill in the missing numbers.

a)
$$0.54 = \frac{100}{100} = \frac{50}{50}$$

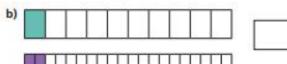
d)
$$=\frac{9}{100}$$

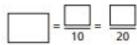
f)
$$\frac{21}{50} = \frac{100}{100} = \frac{1}{100}$$

Use the bar models to fill in the missing numbers.

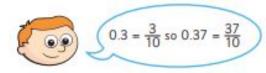












Draw a diagram to show that Ron is wrong.

Y6 Wednesday Answers



Decimals as fractions

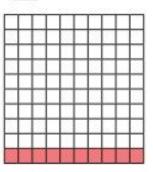
- Complete the sentences.
 - 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1

The whole has been divided into equal parts.

Each part is worth 0

This is equivalent to

b)



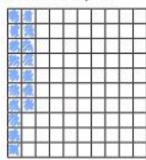
The whole has been divided into | 100 equal parts.

Each part is worth 0.01

parts out of are shaded.

This is equivalent to

- a) Shade 0.17 of the hundred square.



Complete the sentence.

parts out of 100

are shaded.

Write 0.17 as a fraction.

b) Shade 0.2 of the hundred square.

膨胀	8					
掘	it.					
编制	E					
条	2		3			
8	%					
雅	2				8	
20.0	Ş.					
寒 2	系			8.0		
8	8	Ц			_	
86.0	8	Ш				

Complete the sentence.

parts out of 100 are shaded.

Write 0.2 as a fraction in its simplest form.

Use the bar models to fill in the missing numbers.

Fill in the missing numbers.

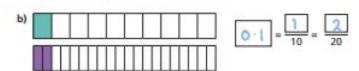
a)
$$0.54 = \frac{54}{100} = \frac{27}{50}$$

d)
$$0.09 = \frac{9}{100}$$

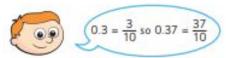
f)
$$\frac{21}{50} = \frac{42}{100} = 0.42$$

Use the bar models to fill in the missing numbers.

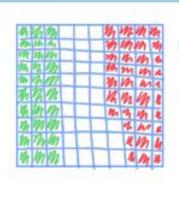


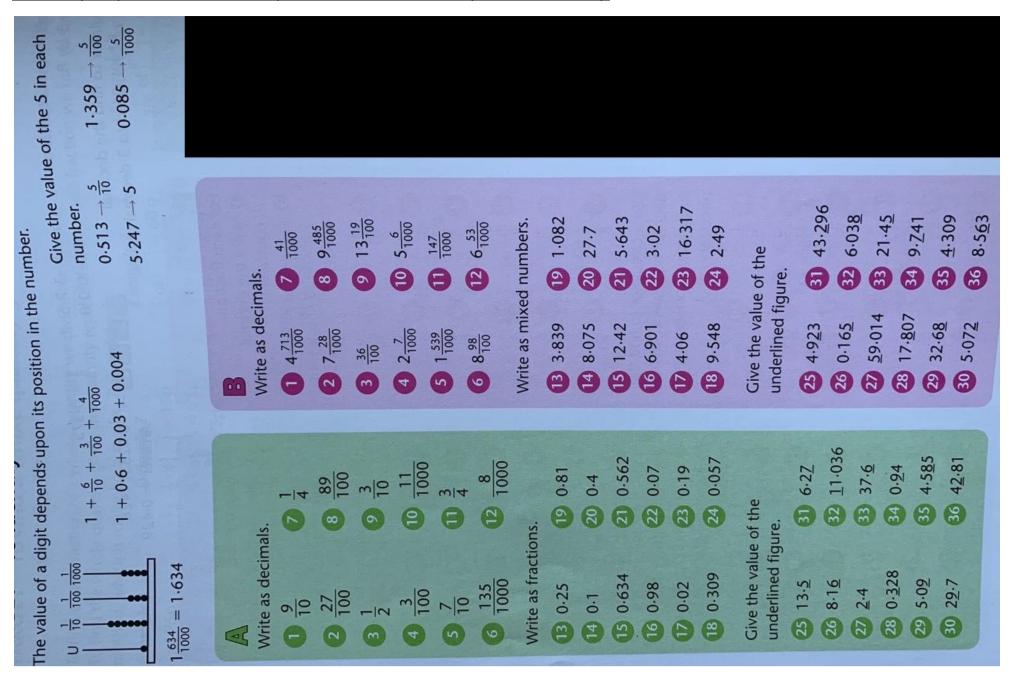






Draw a diagram to show that Ron is wrong.





Y6 Thursday answers

A					
1 0.9	7 0.25	13 $\frac{1}{4}$	19 $\frac{81}{100}$	25 $\frac{5}{10}$	$31\frac{7}{100}$
2 0·27	8 0·89	14 $\frac{1}{10}$	20 $\frac{4}{10}$	26 $\frac{6}{100}$	32 10
3 0·5	9 0·3	15 $\frac{634}{1000}$	21 $\frac{562}{1000}$	27 2	33 $\frac{6}{10}$
4 0·03	10 0·011	16 $\frac{98}{100}$	22 $\frac{7}{100}$	28 $\frac{3}{10}$	$34\frac{9}{10}$
5 0·7	11 0·75	17 $\frac{2}{100}$	23 $\frac{19}{100}$	29 $\frac{9}{100}$	$35\frac{8}{100}$
6 0.135	12 0.008	$18\frac{309}{1000}$	24 $\frac{57}{1000}$	30 9	36 2
В					
1 4·713	7 0·041	13 $3\frac{839}{1000}$	19 $1\frac{82}{1000}$	25 $\frac{2}{100}$	$31\frac{2}{10}$
2 7·028	8 9.485	14 $8\frac{75}{1000}$	20 $27\frac{7}{10}$	$26\frac{5}{1000}$	$32\frac{8}{1000}$
3 0·36	9 13·19	15 $12\frac{42}{100}$	21 $5\frac{643}{1000}$	27 50	33 $\frac{5}{100}$
4 2.007	10 5·006	16 $6\frac{901}{1000}$	22 $3\frac{2}{100}$	$28\frac{8}{10}$	$34\frac{7}{10}$
5 1.539	11 0·147	17 $4\frac{6}{100}$	23 $16\frac{317}{1000}$	29 $\frac{8}{100}$	35 4
6 8.98	12 6·053	$18 \ 9 \frac{548}{1000}$	24 $2\frac{49}{100}$		
		1000	100	$30\frac{2}{1000}$	$36\frac{6}{100}$