Maths Planning and Ideas



Week Commencing: 20th April 2020

Year Group: 4

Mathematical Focus: Decimals

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	Tenths and Hundredths	Tenths as Decimals	Tenths on a Place Value Grid	Tenths on a Number Line	Dividing one digit by 10
Activity	Starter:	Starter:	Starter:	Starter:	Starter:
	Times Table Rockstar				
	Battle of the Bands and Garage challenges have been set for Y4 children.	Battle of the Bands and Garage challenges have been set for Y4 children.	Battle of the Bands and Garage challenges have been set for Y4 children.	Battle of the Bands and Garage challenges have been set for Y4 children.	Battle of the Bands and Garage challenges have been set for Y4 children.
	Main: White Rose Maths - Watch Week I Lesson I https://whiterosemaths.com/h omelearning/year-4/	Main: White Rose Maths - Watch Week I Lesson 2 https://whiterosemaths.com/h omelearning/year-4/	Main: White Rose Maths - Watch Week I Lesson 3 https://whiterosemaths.com/h omelearning/year-4/	Main: White Rose Maths - Watch Week I Lesson 4 https://whiterosemaths.com/h omelearning/year-4/	Main: White Rose Maths - Watch Week I Lesson 5 https://whiterosemaths.com/h omelearning/year-4/
	You might want to pause it and make notes. Or even rewind and watch bits again.	You might want to pause it and make notes. Or even rewind and watch bits again.	You might want to pause it and make notes. Or even rewind and watch bits again.	You might want to pause it and make notes. Or even rewind and watch bits again.	You might want to pause it and make notes. Or even rewind and watch bits again.
	Independent:	Independent:	Independent:	Independent:	Independent:
	The questions below the plan can be completed by children independently.	The questions below the plan can be completed by children independently.	The questions below the plan can be completed by children independently.	The questions below the plan can be completed by children independently.	The questions below the plan can be completed by children independently.

Answers can be fou	und here: Answers can be found he	nere: Answers can be found here:	Answers can be found here:	Answers can be found here:
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Block-4-ANSI-Reco	ognise- Block-4-ANS2-Tenths-as	Block-4-ANS3-Tenths-on-a-	Block-4-ANS4-Tenths-on-a-	Block-4-ANS5-Dividing-I-
tenths-and-hundred	decimals-2019.pdf	place-value-grid-2019.pdf	number-line-2019.pdf	digit-by-10-2019.pdf
2019.pdf	•		·	
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No peeking until af	ter you No peeking until after yo	ou No peeking until after you	No peeking until after you	No peeking until after you
have had a go.	have had a go.	have had a go.	have had a go.	have had a go.
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LC: Can you recognise tenths and hundredths?



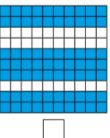


The hundred square represents 1 whole.

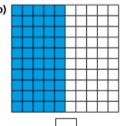
What fraction of each hundred square is shaded?



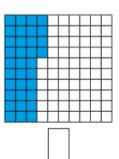




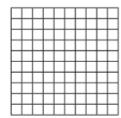
b)



d)



Here is a hundred square.



What fraction of the whole does each represent?

- a) 4 full rows =
- b) 6 full columns =
- c) 13 squares =
- d) 2 full rows and 5 squares =
- e) 3 full columns and 8 squares =

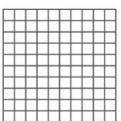
Complete the sentences.

- a) 4 tenths is equivalent to hundredths.
- b) 70 hundredths is equivalent to tenths.
- c) 5 tenths is equivalent to hundredths or 1 _____

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4

One row is one tenth and one column is one tenth, so if I colour one row and one column on my hundred square I will have shown 2 tenths.





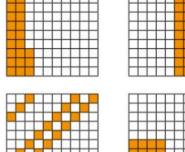
Is	Dext	ter	cor	rect?
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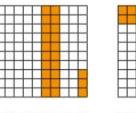
Explain your answer.

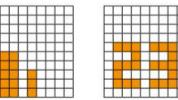
You may use the hundred square to help you.



Tick the hundred squares with $\frac{23}{100}$ shaded.

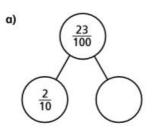


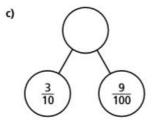


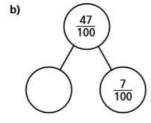


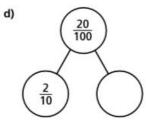


6 Complete the part-whole models.











$$\frac{73}{100} = \frac{7}{10} + \frac{3}{100}$$

$$\frac{73}{100} = \frac{6}{10} + \frac{13}{100}$$



Annie

Ron

Who is correct?

How many ways can you partition $\frac{73}{100}$?



LC: Cam you recognise and represent tenths as decimals?

Tenths as decimals	White Rose Maths



a)	7	tor	nths
u	•	tei	ILIIS

_	_	 	 		

b)
$$\frac{4}{10}$$

0.1

2	Complete the table to show the fractions and decimals the bar
	models represent.

Bar model	Fraction	Decimal

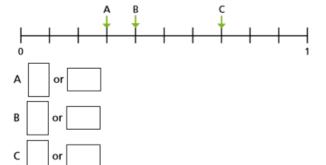
Write each fraction and decimal in the correct place on the number line.

$$\frac{2}{10}$$
 0.6 $\frac{9}{10}$

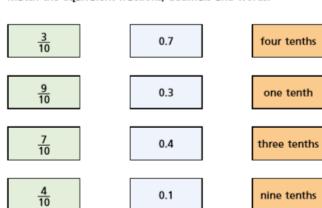


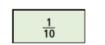
Work out the values of A, B and C.

Give your answers as fractions and decimals.



Match the equivalent fractions, decimals and words.



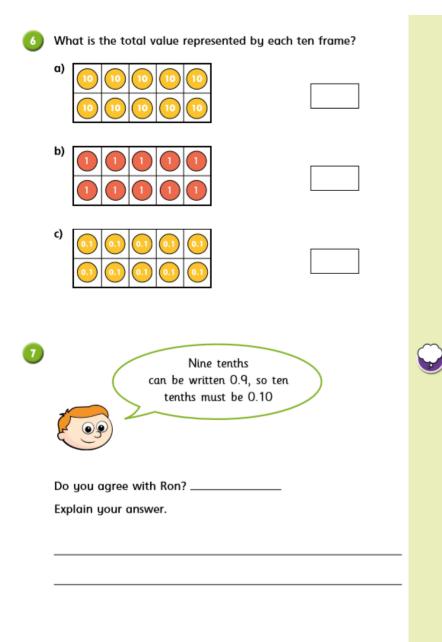


0.9

nine tenths

seven tenths

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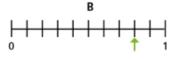
8 Eight tenths can be represented in all of the ways shown.

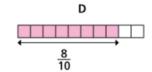
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C







Which do you think is the best representation?

Discuss your answer with a partner.

Represent six tenths in each different way.







LC: Can you represent tenths on a place value grid?

Tenths on a place value grid Write the decimal that is shown in each place value chart. Ones **Tenths** Ones **Tenths** Ones **Tenths** Draw counters on the place value charts to represent each number. 2.1 0.2 a) c) Ones Tenths Ones Tenths 1.2 b) d) 2 Tenths Ones Tenths Ones

Rosie is using this place value chart to make numbers.





She uses all 8 counters each time.

Complete the sentences.

- a) The smallest number possible is
- b) The greatest number possible is
- c) A number between 3 and 4 is
- d) The closest possible number to 5 is



Ones	Tenths

- a) What number has Tommy represented?
- b) Draw counters to show how Tommy could have represented this differently.



c) What method did you use? Talk about it with a partner.



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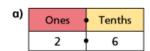






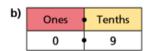






tenths. There are ones and

	ones +		tenths =		+		=	
--	--------	--	----------	--	---	--	---	--



tenths. There are ones and

	ones +		tenths =		+		=	
--	--------	--	----------	--	---	--	---	--

Draw counters to represent each number.

Write each number as a decimal.

a) There are 3 ones and 2 tenths.

Ones	Tenths

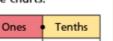
b) There are 5 ones and 2 tenths.

Ones	Tenths

c) There are 2 tenths.

Ones	Tenths

Match the written numbers to the place value charts.



2

twenty-one tenths

one tenth

twelve tenths

ten tenths

Ones	Tenths
2	1
Ones	Tenths
1 '	0
Ones	Tenths
•	



Six tenths added to four tenths makes ten tenths, which is a whole.

How many other ways can you make a whole from tenths?



LC: Can you place tenths on a number line?

Tenths on a number line



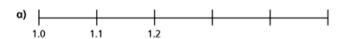
Fill in the decimal numbers on each number line.







Complete the number lines.



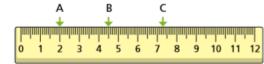






Here is a ruler with centimetres as whole numbers and millimetres as tenths.

Complete the sentences about points A, B and C.



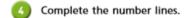
Point A is cm along the ruler.

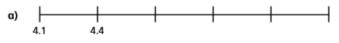
Point B is cm and mm along the ruler.

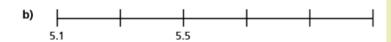
As a decimal it is cm.

Point C is cm and mm along the ruler.

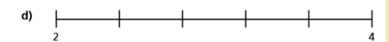
As a decimal it is cm.



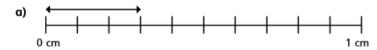




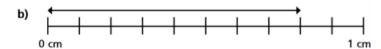




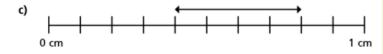
How long is each line?



The line is cm long.



The line is cm long.

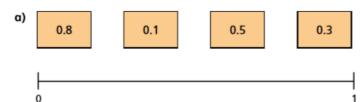


The line is cm long.

How would your answers have been different if given in millimetres?



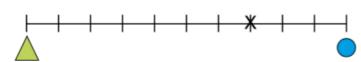
Draw arrows to estimate the position of the numbers on the number line.





The triangle, circle and cross have the same value on both lines.
Work out the values.







Create your own problem like this for a friend.



LC: Can you divide one digit by 10?

Dividing 1 digit by 10	White Rose Maths
Look at the ten frames.	
What number is represented? Complete the division. ÷ 10 =	
b) 0 0 0 0 0 0	
What number is represented? Complete the division. ÷ 10 =	
c) What is the same? What is different?	
a) What calculation is represented by the counters?	
b) Complete the number sentence. ones divided by ten = tenths.	

a)	Draw	counters	on 1	the	place	value	chart	to	show	7

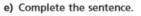
Ones	Tenths

b) Complete the division.

c) Draw counters on the place value chart to show your answer.

Ones	Tenths

d) What do you notice?



	ones divided by ten =		tenth
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- a) Use a place value chart to represent 9
 - b) Move the counters to the right to represent 0.9
 - c) Complete the division.

- d) What do you notice?
- e) Complete the sentence.

ones	divided	by te	n equals		tenths.
		- 9		1	

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To divide by 10, you split the counters into 10 equal parts.

Dora

To divide by 10, you put the counters on a place value chart and move them one column to the right.

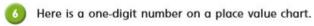


Alex

Who is correct? Circle your answer.

Dora Alex neither both

Compare answers with a partner.



Ones	Tenths
6	•

a) Complete the division.

b) Write your answer on the place value chart.

0	Tth

 c) In your own words, describe what happens to the digits in a number when you divide by 10



d) Use this method to work out the divisions.

Complete the divisions.

Complete the number sentences.

d) Write a problem like this for a partner to solve.



Where can I complete further work?

<u>Twinkl</u> – Subscription service used by schools is offering a free premium service for teachers, parents and children to use whilst schools are closed. Enter the code **UKTWINKLHELPS** for access to worksheets, powerpoints and interactive games to support all areas of learning.

<u>Classroom Secrets</u> – Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

White Rose Maths – Free Maths home learning resources for all ages. Watch the videos and try the questions.

<u>Primary Stars</u> – Free Maths home learning packs for Year 1 and 2.

BBC Bitesize Primary – Free learning resources available for KS1 and KS2 across all subjects.

<u>I See Maths</u> – Free daily home maths lessons hosted by Gareth Metcalfe. Follow the link for videos, information and resources.

<u>Top Marks</u> – Free educational resources and games for English and Maths.

ICT Games – Free educational resources and games for English and Maths.