Maths Planning and Ideas



Week Commencing: 27th April 2020

Year Group: 4

Mathematical Focus: Decimals

	Monday Tuesday		Wednesday	Thursday	Friday
Area of Learning			Hundredths as decimals	Hundredths on a place value grid	Divide I or 2-digits by 100
Activity	Activity Starter: Starter:		Starter:	Starter:	Starter:
	Times Table Rockstar	Times Table Rockstar	Times Table Rockstar	Times Table Rockstar	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 2 Lesson I https://whiterosemaths.com/h omelearning/year-4/	Main: White Rose Maths - Watch Week 2 Lesson 2 https://whiterosemaths.com/h omelearning/year-4/	Main: White Rose Maths - Watch Week 2 Lesson 3 https://whiterosemaths.com/h omelearning/year-4/	Main: White Rose Maths - Watch Week 2 Lesson 4 https://whiterosemaths.com/h omelearning/year-4/	Main: White Rose Maths - Watch Week2 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 found here: |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
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| Block-4-ANS6-Dividing-2- | Block-4-ANS7-Hundredths- | Block-4-ANS8-Hundredths- | Block-4-ANS9-Hundredths- | Block-4-ANS10-Dividing-1- |
| digits-by-10-2019.pdf | 2019.pdf | as-decimals-2019.pdf | on-a-place-value-grid- | and-2-digits-by-a-hundred- |
| | • | • | 2019.pdf | 2019.pdf |
| | | | | |
| No peeking until after you |
| have had a go. |
| | 3 | | | |

LC: Can you divide 2-digits by 10?

Dividing 2 digits by 10



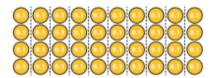
0

a) The array shows 20 shared between 10



Complete the calculation.

b) The array shows 4 shared between 10



Complete the calculation.

c) Complete the calculation.

Compare answers with a partner.



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	-	
	74	
		J
	_	•

a) Draw counters to represent 30 on the place value chart.

Tens	Ones	Tenths

Complete the division.

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

Tens	Ones	Tenths

b) Draw counters to show 35 on the place value chart.

Tens	Ones	Tenths

Complete the division.

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

Tens	Ones	Tenths

c) What do you notice about your answers in parts a) and b)?

Complete the sentence.	
When dividing by 10, you move the counters	
place to the	_

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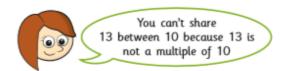






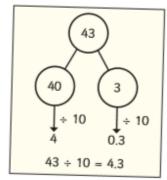




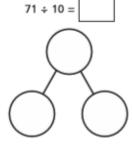


Do you agree with Rosie? _____ Explain your answer.

Dexter is calculating 43 ÷ 10 Here are Dexter's workings.

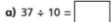


- a) Talk to a partner about why Dexter's method works.
- b) Use Dexter's method to complete the divisions.





Complete the divisions.





a)

This Gattegno chart shows the number 37

100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

I need to move the counters one place to the left, so $37 \div 10 = 26$



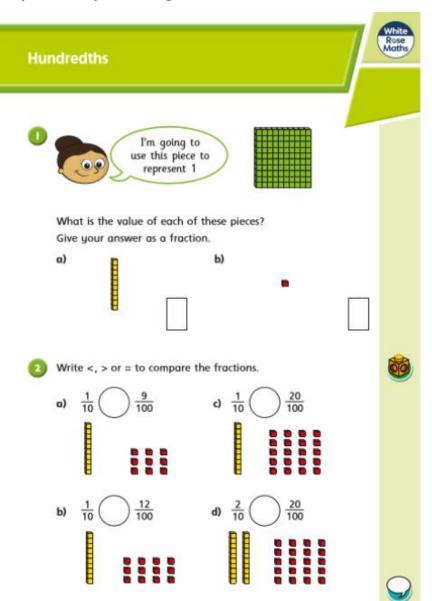
Do you	agree v	with	Teddy?	
Explain	uour ar	nswe	r.	

Empressi godi	411011411

b) How can you use a Gattegno chart to divide by 10?



LC: Can you identify and recognise hundredths?





into 2 tenths and

I can partition it another way.



Jack

Who do you agree with? _____

Explain why.

Compare answers with a partner.



a)
$$\frac{3}{10} = \frac{100}{100}$$

d)
$$\frac{20}{100} = \frac{10}{10}$$

b)
$$\frac{7}{10} = \frac{100}{100}$$

e)
$$\frac{27}{100} = \frac{1}{10} + \frac{1}{100}$$

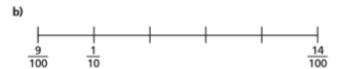
c)
$$\frac{80}{100} = \frac{10}{10}$$

c)
$$\frac{80}{100} = \frac{1}{10}$$
 f) $\frac{67}{100} = \frac{1}{10} + \frac{1}{100}$

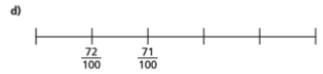
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Amir is counting 67 hundredths on a bead string.



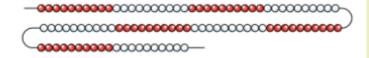
This will take a long time, because I have to count 67 beads.



You can do it faster by using tenths as well,

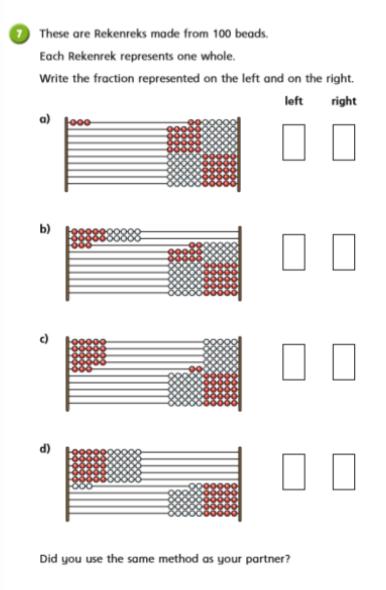


Annie



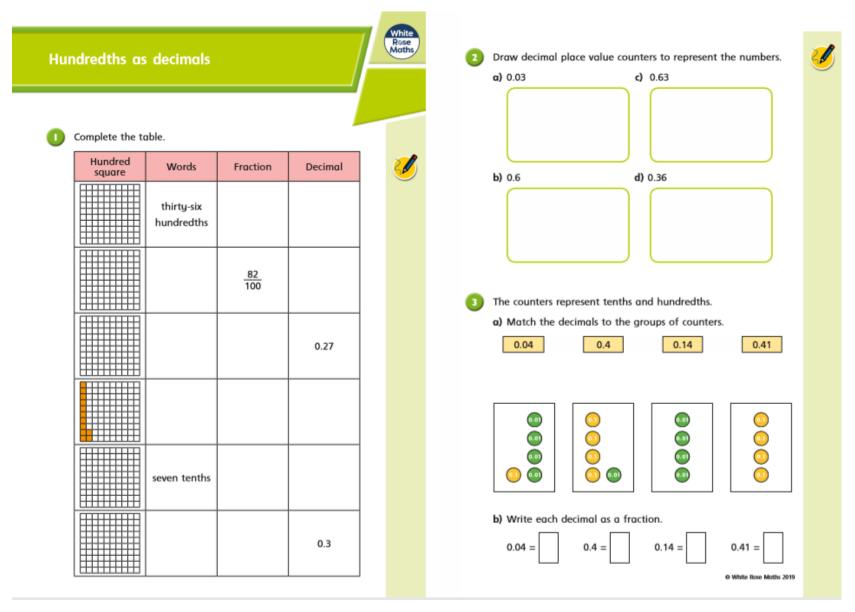
Explain to a partner how to use Annie's method.



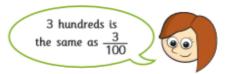




LC: Can you identify hundredths as decimals?







Is Rosie correct?
Explain your answer.

Match the decimals to the descriptions.
Some of the numbers can be described in two ways.

0.13

1.3 one tenth and three hundredths

thirty hundredths

one and three tenths

thirteen tenths

thirteen hundredths

three tenths

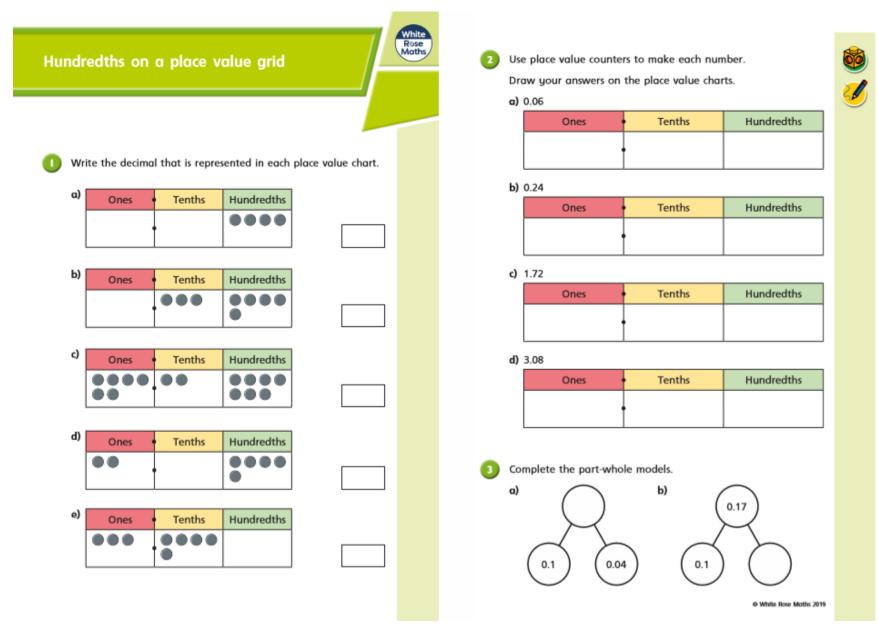
three hundredths

Shade the hundred squares to represent 12 hundredths in three different ways. Compare answers with a partner. What is the same? What is different? 6 tenths of the hundred square 0.6 of the is shaded. hundred square is shaded. Ron Dora 60 hundredths 0.60 of the of the hundred square hundred square is shaded. is shaded. Whitney Jack

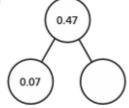
Who do you agree with? _

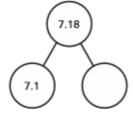
Explain why.

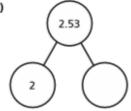
LC: Can you represent hundredths on a place value grid?

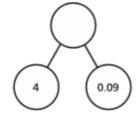


c)







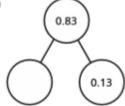


Complete the sentences.

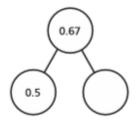


- b) 7 tenths can be exchanged for hundredths.
- c) 7 tenths and 4 hundredths is equivalent to hundredths.
- hundredths is equivalent to tenths and 26 hundredths.
- Complete the part-whole models.

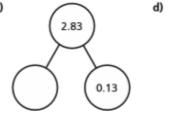
a)

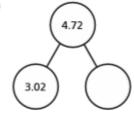


b)



c)





Whitney, Tommy, Esther and Dexter each have the same three digit cards and a place value chart.



Ones	Tenths	Hundredths	
			0

When they put the cards in the chart with one in each space, they each make a different number.

Use the clues to work out each person's number and write it on their place value chart.

- Dexter makes the greatest number possible.
- Tommy makes the number closest to four.
- · Esther and Whitney choose the two numbers closest together (Esther makes the slightly greater number).

Dexter Tommy

Ones	Tenths	Hundredths	Ones	Tenths	Hundredths
				•	

Whitney

E	_	-1	L	_	
E	5	u	n	e	•

Ones	Tenths	Hundredths	Ones	Tenths	Hundredths

01.05.2020

LC: Can you divide I or 2-digits by 100?

Dividing 1 and 2 digits by a hundred



Draw counters to show 8 on the place value chart.

Ones	Tenths	Hundredths

b) Complete the division.

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

Ones	Tenths	Hundredths

What do you notice?



a) Draw counters to show 80 on the place value chart.

Tens	Ones	Tenths	Hundredths

b) Complete the division.

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

Tenths	t to on along dates
Terreris	Hundredths

What do you notice?



Complete the sentence.

To divide by 100 you move the counters places to the _____

Complete the calculations.

a) 3 ÷ 100 =

b) 90 ÷ 100 =

c) = 5 ÷ 100

Dora is working out 48 ÷ 100 using a place value chart.

Tens	Ones	Tenths	Hundredths
••••			



To divide by 100 you move two places to the right, so 48 ÷ 100 is 40.08

Tens	Ones	Tenths	Hundredths
••••			••••

a) Explain the mistake that Dora has made.

b) Complete the division.

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This Gattegno chart shows the number 37

10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

a) Explain how you would work out 37 ÷ 100 using this chart.

Compare answers with a partner.

b) Use the Gattegno chart to complete the division.

c) Use the Gattegno chart to complete the division.

Complete the calculations.



Complete the calculations.

a) 36 ÷ 10 =

36 ÷ 100 =

36 ÷ 10 ÷ 10 =

What do you notice?



9

Dividing by 100 is always the same as dividing by 10 twice.



Do you agree with Amir? ___

Explain your answer.



Roll two dice to make two 2-digit numbers.



Here is an example.



36 ÷ 100 and 63 ÷ 100

÷ 100 = and ÷ 100 =

÷ 100 = and ÷ 100 =

What is the greatest possible answer you can get?



What is the smallest possible answer?



Compare answers with a partner.



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.

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<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.

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