Class 3 Home Learning, week beginning 4th May 2020

Maths - Year 4

Week 2, Lesson 5 Divide 1 or 2-digits by 100

Please watch the video before choosing your challenge.

Why not have a go at the reasoning and problem solving too?

w/b 4.5.20 Class 3's Home Learning, Maths (Y4)

Can I divide by 100?

Challenge I

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to write the question number too!

Questions 1-5 mentioned in the video are questions 1-5 in Challenge 1.

1) Please draw the place value charts in your maths book.

a) Draw counters to show 8 on the place value chart.

Ones	Tenths	Hundredths

b) Complete the division.

8 ÷ 100 =

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

Ones	Tenths	Hundredths

- 2) Please draw the place value charts in your maths book.
 - a) Draw counters to show 80 on the place value chart.

Tens	Ones	Tenths	Hundredths

b) Complete the division.

80 ÷ 100 =

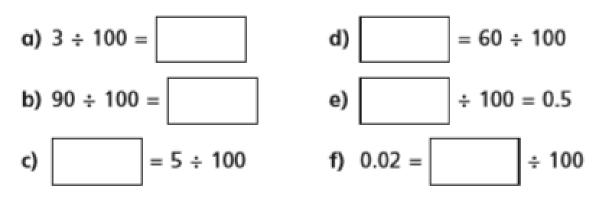
c) Draw counters to show your answer on the place value chart.

Tens	Ones	Tenths	Hundredths

3) Copy and complete.

To divide by 100 you move the counters places to

4) Copy and complete.



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

Tens	Ones	Tenths	Hundredths	
••••				
	🦰 🤇 move t	divide by 100 two places to th 48 ÷ 100 is 40	ie right,	
Tens	Ones	Hundredths		

- a) Explain the mistake that Dora has made.
- b) Complete the division.
 - 48 ÷ 100 =

Answers for all of the above questions can be found on the White Rose Home Learning website.

w/b 4.5.20 Class 3's Home Learning, Maths (Y4)

Can I divide by 100?

Challenge 2

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to write the question number too!

Questions 1-5 mentioned in the video are questions 1-5 in Challenge 1. Questions 6-10 mentioned in the video are question 1-5 in this challenge.

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.

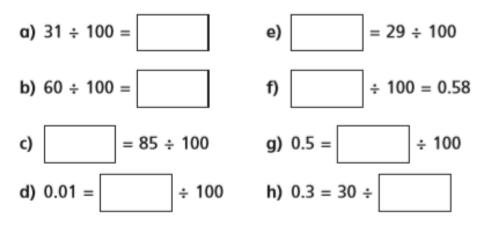
b) Use the Gattegno chart to complete the division.

92 ÷ 100 =

c) Use the Gattegno chart to complete the division.

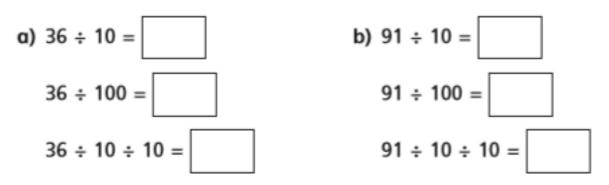
19 ÷ 100 =

2) Copy and complete. Remember how many spaces to the right each digit would need to move on a place value chart.



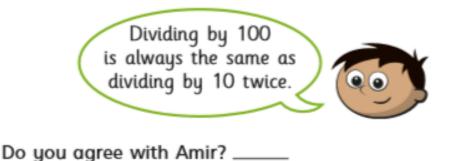
1)

3) Copy and complete.



What do you notice?

4) Please explain your answer in writing.

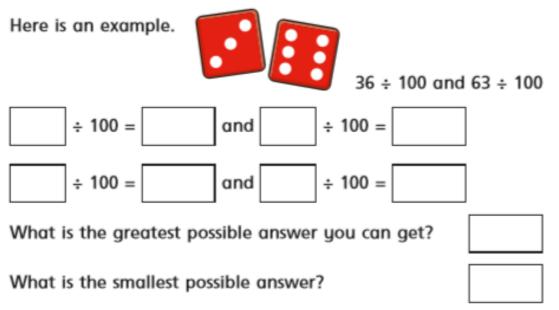


5) If you do not have dice, why not write the digits I-6 on separate pieces

of paper and choose at random, twice?

Roll two dice to make two 2-digit numbers.

Divide your numbers by 100. Record your answer. Roll again.



Answers for all of the above questions can be found on the White Rose Home Learning website.

w/b 4.5.20 Class 3's Home Learning, Maths (Y4)

Can I divide by 100?

Reasoning and problem solving

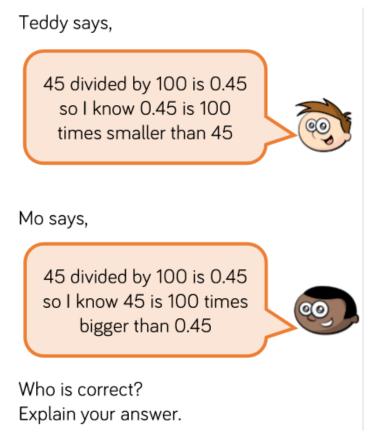
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¹⁾ Describe the pattern.

 $7,000 \div 100 = 70$ $700 \div 100 = 7$ $70 \div 100 = 0.7$ $7 \div 100 = 0.07$

Can you complete the pattern starting with 5,300 divided by 100?

2) Hint: drawing a place value chart may help!





Reasoning and Problem Solving

Describe the pattern.	Children will	Teddy says,	Teddy and Mo are
$7,000 \div 100 = 70$ $700 \div 100 = 7$ $70 \div 100 = 0.7$ $7 \div 100 = 0.07$	describe the pattern they see e.g. 7,000 is 10 times bigger than 700, therefore the	45 divided by 100 is 0.45 so I know 0.45 is 100 times smaller than 45	Children may use a place value chart to help them explain their answer.
Can you complete the pattern starting with 5,300 divided by 100?	10 times bigger as the divisor has remained the same. For 5,300: $5,300 \div 100 = 53$ $530 \div 100 = 5.3$ $53 \div 100 = 0.53$ $5.3 \div 100 = 0.053$	Mo says, 45 divided by 100 is 0.45 so I know 45 is 100 times bigger than 0.45 Who is correct? Explain your answer.	