

Friday 12th June 2020 Maths Y4

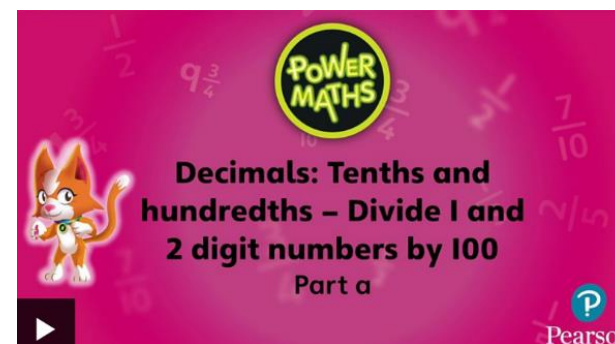
Good morning Year 4s

Home learning focus - Dividing 1 or 2 digits by 100

Learn how to divide a 1-digit or 2-digit number by 100 and use place value columns to show the answer.

First go to <https://whiterosemaths.com/homelearning/year-4/> - Summer Week 7 lesson 4 and do the worksheets attached.

If you would like more practise you could also go to <https://www.bbc.co.uk/bitesize/articles/z4dmhg8> and watch the videos – part a and part b and then complete the worksheets.



When you have finished, you could try the **Y4 challenge – The Deca Tree**, that I have posted on the Oaks page (answer on Monday!)

or

the Summer Week 7 Friday Maths Challenge instead (same white Rose links link as above). Good luck!

Dividing 1 and 2 digits by a hundred

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

Ones	Tenths	Hundredths

- b) Complete the division.

$$8 \div 100 = \square$$

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

Ones	Tenths	Hundredths

What do you notice?

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

Tens	Ones	Tenths	Hundredths

- b) Complete the division.

$$80 \div 100 = \square$$

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

Tens	Ones	Tenths	Hundredths

What do you notice?



- 3 Complete the sentence.

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

- 4 Complete the calculations.

a) $3 \div 100 = \square$

d) $\square = 60 \div 100$

b) $90 \div 100 = \square$

e) $\square \div 100 = 0.5$

c) $\square = 5 \div 100$

f) $0.02 = \square \div 100$

- 5 Dora is working out $48 \div 100$ using a place value chart.

Tens	Ones	Tenths	Hundredths
● ● ● ●	● ● ● ● ● ● ● ●		



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

Tens	Ones	Tenths	Hundredths
● ● ● ●			● ● ● ● ● ● ● ●

- a) Explain the mistake that Dora has made.

- b) Complete the division.

$$48 \div 100 = \square$$

- 6 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 $37 \div 100$ using this chart.

Compare answers with a partner.

- b) Use the Gattegno chart to complete the division.

$$92 \div 100 = \boxed{}$$

- c) Use the Gattegno chart to complete the division.

$$19 \div 100 = \boxed{}$$

- 7 Complete the calculations.

a) $31 \div 100 = \boxed{}$

e) $\boxed{} = 29 \div 100$

b) $60 \div 100 = \boxed{}$

f) $\boxed{} \div 100 = 0.58$

c) $\boxed{} = 85 \div 100$

g) $0.5 = \boxed{} \div 100$

d) $0.01 = \boxed{} \div 100$

h) $0.3 = 30 \div \boxed{}$



- 8 Complete the calculations.

a) $36 \div 10 = \boxed{}$

b) $91 \div 10 = \boxed{}$

$$36 \div 100 = \boxed{}$$

$$91 \div 100 = \boxed{}$$

$$36 \div 10 \div 10 = \boxed{}$$

$$91 \div 10 \div 10 = \boxed{}$$

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.

- 10 Roll two dice to make two 2-digit numbers.

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

Here is an example.



$36 \div 100$ and $63 \div 100$

$$\boxed{} \div 100 = \boxed{} \text{ and } \boxed{} \div 100 = \boxed{}$$

$$\boxed{} \div 100 = \boxed{} \text{ and } \boxed{} \div 100 = \boxed{}$$

What is the greatest possible answer you can get?

What is the smallest possible answer?

Compare answers with a partner.

Dividing 1 and 2 digits by a hundred

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

Ones	Tenths	Hundredths
0-0-0-0-0-0-0-0		

b) Complete the division.

$8 \div 100 = 0.08$

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

Ones	Tenths	Hundredths
		0-0-0-0-0-0-0-0

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

Tens	Ones	Tenths	Hundredths
0-0-0-0-0-0-0-0			

b) Complete the division.

$80 \div 100 = 0.8$

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

Tens	Ones	Tenths	Hundredths
		0-0-0-0-0-0-0-0	

What do you notice?

3 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

d) Explain how you would work out $37 \div 100$ using this chart.

Read the number down 3.

Compare answers with a partner.

e) Use the Gattegno chart to complete the division.

$80 \div 100 = 0.8$

f) Use the Gattegno chart to complete the division.

$19 \div 100 = 0.19$

4 Complete the calculations.

a) $31 \div 100 = 0.31$

b) $60 \div 100 = 0.6$

c) $105 \div 100 = 1.05$

d) $0.01 = 1 \div 100$

e) $0.3 = 30 \div 100$

1 Complete the sentences.

To divide by 100 you move the counter 2 places to the right.

2 Complete the calculations.

a) $3 \div 100 = 0.03$

b) $90 \div 100 = 0.9$

c) $0.03 = 3 \div 100$

d) $3 \div 100 = 0.03$

e) $90 \div 100 = 0.9$

f) $0.03 = 3 \div 100$

3 Dora is working out $48 \div 100$ using a place value chart.

Tens	Ones	Tenths	Hundredths
4-4-4-4-4-4-4-4			

To divide by 100 you move two places to the right, so $48 \div 100 = 0.48$

Tens	Ones	Tenths	Hundredths
4-4-4-4-4-4-4-4			

d) Explain the mistake that Dora has made.

Also, hundred out of 100 is 100.

e) Complete the division.

$48 \div 100 = 0.48$

4 Complete the calculations.

a) $36 \div 10 = 3.6$

b) $81 \div 10 = 8.1$

$36 \div 100 = 0.36$

$81 \div 100 = 0.81$

$36 \div 10 \div 10 = 0.36$

$81 \div 10 \div 10 = 0.81$

5 What do you notice?

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

Do you agree with Amir? Yes.

Explain your answer.

6 Roll two dice to make two 2-digit numbers.

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

Here is an example.

36 \div 100 and 43 \div 100

$\square \div 100 = \square$ and $\square \div 100 = \square$

$\square \div 100 = \square$ and $\square \div 100 = \square$

What is the greatest possible answer you can get? 0.99

What is the smallest possible answer? 0.01

Compare answers with a partner.