

# Dividing 1 and 2 digits by a hundred

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

Ones	Tenths	Hundredths
00000000		

- b) Complete the division.

$$8 \div 100 = 0.08$$

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

Ones	Tenths	Hundredths
		00000000

What do you notice?

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

Tens	Ones	Tenths	Hundredths
00000000			

- b) Complete the division.

$$80 \div 100 = 0.8$$

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

Tens	Ones	Tenths	Hundredths
		000000	00

What do you notice?

- 3 Complete the sentence.

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

- 4 Complete the calculations.

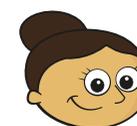
a)  $3 \div 100 = 0.03$       d)  $0.6 = 60 \div 100$

b)  $90 \div 100 = 0.9$       e)  $50 \div 100 = 0.5$

c)  $0.05 = 5 \div 100$       f)  $0.02 = 2 \div 100$

- 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.

She hasn't moved all of the counters.

- b) Complete the division.

$$48 \div 100 = 0.48$$

- 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.

Move the counters down 2

Compare answers with a partner.

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

$$92 \div 100 = 0.92$$

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

$$19 \div 100 = 0.19$$

- 7 Complete the calculations.

a)  $31 \div 100 = 0.31$

e)  $0.29 = 29 \div 100$

b)  $60 \div 100 = 0.6$

f)  $58 \div 100 = 0.58$

c)  $0.85 = 85 \div 100$

g)  $0.5 = 50 \div 100$

d)  $0.01 = 1 \div 100$

h)  $0.3 = 30 \div 100$



- 8 Complete the calculations.

a)  $36 \div 10 = 3.6$

b)  $91 \div 10 = 9.1$

$$36 \div 100 = 0.36$$

$$91 \div 100 = 0.91$$

$$36 \div 10 \div 10 = 0.36$$

$$91 \div 10 \div 10 = 0.91$$

What do you notice?

- 9

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



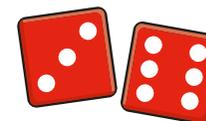
Do you agree with Amir? Yes

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  $63 \div 100$

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

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

What is the greatest possible answer you can get?  $0.66$

What is the smallest possible answer?  $0.11$

Compare answers with a partner.

