

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.

$$8 \div 100 = 0.08$$

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.

$$80 \div 100 = 0.8$$

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 2 places to the right.

4 Complete the calculations.

a) $3 \div 100 = 0.03$

d) $60 \div 100 = 0.6$

b) $90 \div 100 = 0.9$

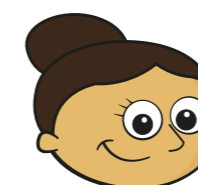
e) $50 \div 100 = 0.5$

c) $5 \div 100 = 0.05$

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.

$$92 \div 100 = \boxed{0.92}$$

c) Use the Gattegno chart to complete the division.

$$19 \div 100 = \boxed{0.19}$$



7 Complete the calculations.

a) $31 \div 100 = \boxed{0.31}$

e) $\boxed{0.29} = 29 \div 100$

b) $60 \div 100 = \boxed{0.6}$

f) $\boxed{58} \div 100 = 0.58$

c) $\boxed{0.85} = 85 \div 100$

g) $0.5 = \boxed{50} \div 100$

d) $0.01 = \boxed{1} \div 100$

h) $0.3 = 30 \div \boxed{100}$

8 Complete the calculations.

a) $36 \div 10 = \boxed{3.6}$

b) $91 \div 10 = \boxed{9.1}$

$$36 \div 100 = \boxed{0.36}$$

$$91 \div 100 = \boxed{0.91}$$

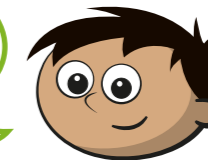
$$36 \div 10 \div 10 = \boxed{0.36}$$

$$91 \div 10 \div 10 = \boxed{0.91}$$

What do you notice?

9

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



Do you agree with Amir? Yes

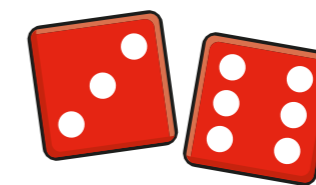
Explain your answer.

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 $63 \div 100$

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

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

What is the greatest possible answer you can get? $\boxed{0.66}$

What is the smallest possible answer? $\boxed{0.11}$

Compare answers with a partner.

