# 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.

$8 \div 100 =$ ☐

**c)**

| 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.

$80 \div 100 =$ ☐

**c)**

| 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)** $3 \div 100 = \square$

**b)** $90 \div 100 = \square$

**c)** $\square = 5 \div 100$

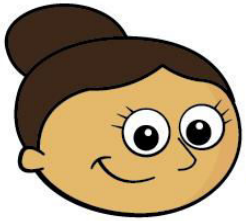
**d)** $\square = 60 \div 100$

**e)** $\square \div 100 = 0.5$

**f)** $0.02 = \square \div 100$

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

| Tens | Ones | Tenths | Hundredths |
|---|---|---|---|
| ●●●● | ●●●●<br>●●●● | | |



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

| Tens | Ones | Tenths | Hundredths |
|---|---|---|---|
| ●●●● | | | ●●●●<br>●●●● |

5 **a)** Explain the mistake that Dora has made.

_____

_____

**b)** Complete the division.

$48 \div 100 =$ ☐

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 ÷ 100 using this chart.

Compare answers with a partner.

6 **b)** Use the Gattegno chart to complete the division.

$92 \div 100 =$ ☐

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

$19 \div 100 =$ ☐

7 Complete the calculations.

a) $31 \div 100 =$ ☐

b) $60 \div 100 =$ ☐

c) ☐ $= 85 \div 100$

d) $0.01 =$ ☐ $\div 100$

e) ☐ $= 29 \div 100$

f) ☐ $\div 100 = 0.58$

g) $0.5 =$ ☐ $\div 100$

h) $0.3 = 30 \div$ ☐

**8** Complete the calculations.

**a)** $36 \div 10 =$ ☐

$36 \div 100 =$ ☐

$36 \div 10 \div 10 =$ ☐

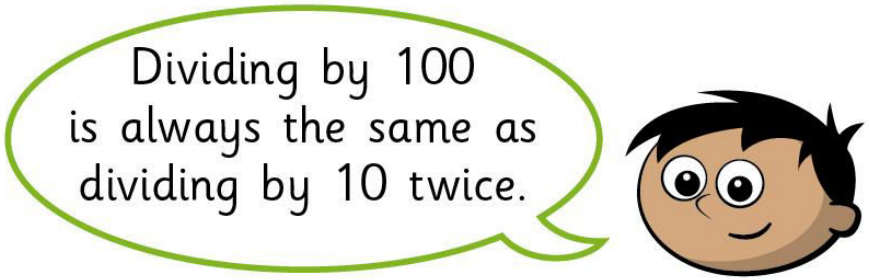
**b)** $91 \div 10 =$ ☐

$91 \div 100 =$ ☐

$91 \div 10 \div 10 =$ ☐

What do you notice?

9



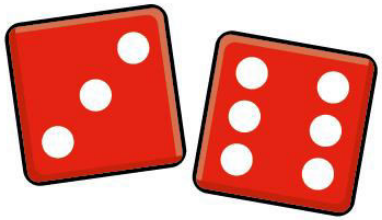

Do you agree with Amir? _____

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 ÷ 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.