

# 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)  $90 \div 100 = \square$

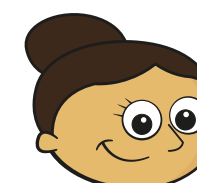
e)  $\square \div 100 = 0.5$

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.

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Compare answers with a partner.

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

$$92 \div 100 = \boxed{\phantom{00}}$$

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

$$19 \div 100 = \boxed{\phantom{00}}$$

- 7 Complete the calculations.

a)  $31 \div 100 = \boxed{\phantom{00}}$

e)  $\boxed{\phantom{00}} = 29 \div 100$

b)  $60 \div 100 = \boxed{\phantom{00}}$

f)  $\boxed{\phantom{00}} \div 100 = 0.58$

c)  $\boxed{\phantom{00}} = 85 \div 100$

g)  $0.5 = \boxed{\phantom{00}} \div 100$

d)  $0.01 = \boxed{\phantom{00}} \div 100$

h)  $0.3 = 30 \div \boxed{\phantom{00}}$



- 8 Complete the calculations.

a)  $36 \div 10 = \boxed{\phantom{00}}$

b)  $91 \div 10 = \boxed{\phantom{00}}$

$$36 \div 100 = \boxed{\phantom{00}}$$

$$91 \div 100 = \boxed{\phantom{00}}$$

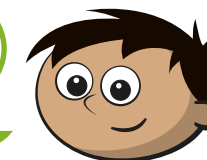
$$36 \div 10 \div 10 = \boxed{\phantom{00}}$$

$$91 \div 10 \div 10 = \boxed{\phantom{00}}$$

What do you notice?

- 9

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



Do you agree with Amir? \_\_\_\_\_

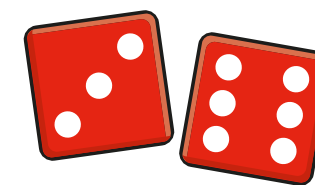
Explain your answer.

- 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  $63 \div 100$

$$\boxed{\phantom{00}} \div 100 = \boxed{\phantom{00}} \text{ and } \boxed{\phantom{00}} \div 100 = \boxed{\phantom{00}}$$

$$\boxed{\phantom{00}} \div 100 = \boxed{\phantom{00}} \text{ and } \boxed{\phantom{00}} \div 100 = \boxed{\phantom{00}}$$

What is the greatest possible answer you can get?

What is the smallest possible answer?

Compare answers with a partner.

