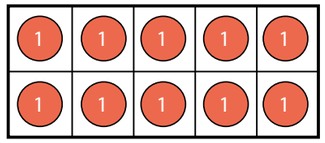
Dividing 1 digit by 10

1 Look at the ten frames.

a)



What number is represented? 10

Complete the division. 10 ÷ 10 = 1

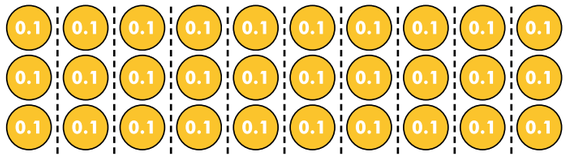
b)

What number is represented? 1

Complete the division. 1 ÷ 10 = 0·1

c) What is the same? What is different?

2 **a)** What calculation is represented by the counters?



3 ÷ 10 = 0·3

b) Complete the number sentence.

3 ones divided by ten = 3 tenths.

3 **a)** Draw counters on the place value chart to show 7

Ones	Tenths
○○○○ ○○○	

b) Complete the division. 7 ÷ 10 = 0·7

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

Ones	Tenths
	○○○○ ○○○

d) What do you notice?

e) Complete the sentence.

7 ones divided by ten = 7 tenths.

4 **a)** Use a place value chart to represent 9

b) Move the counters to the right to represent 0.9

c) Complete the division.

9 ÷ 10 = 0·9

d) What do you notice?

e) Complete the sentence.

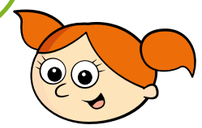
9 ones divided by ten equals 9 tenths.

5

To divide by 10, you split the counters into 10 equal parts.

Dora

To divide by 10, you put the counters on a place value chart and move them one column to the right.



Alex

Who is correct? Circle your answer.

Dora **Alex** **neither** **both**

Compare answers with a partner.

6 Here is a one-digit number on a place value chart.

Ones	Tenths
6	

a) Complete the division.

$6 \div 10 =$ 0·6

b) Write your answer on the place value chart.

O	Tth
	6

c) In your own words, describe what happens to the digits in a number when you divide by 10

They move one place to the right.

d) Use this method to work out the divisions.

$7 \div 10 =$ 0·7 $\quad$ 8 $\div 10 = 0.8$

7 Complete the divisions.

a) $4 \div 10 =$ 0·4

b) $2 \div 10 =$ 0·2

c) 0·5 $= 5 \div 10$

d) $9 \div 10 =$ 0·9

e) 3 $\div 10 = 0.3$

f) 1 $\div 10 = 0.1$

8 Complete the number sentences.

a) $6 \div$ 2 $\div 10 = 3 \div 10$

b) $24 \div 6 \div 10 =$ 4 $\div 10$

c) $42 \div$ 14 $\div 10 = 21 \div 7 \div 10$

d) Write a problem like this for a partner to solve.