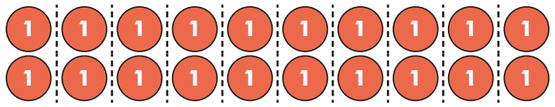
Dividing 2 digits by 10

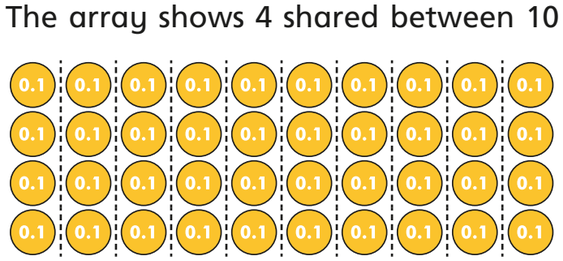
1 **a)** The array shows 20 shared between 10



Complete the calculation.

20 ÷ 10 = 2

b) The array shows 4 shared between 10



Complete the calculation.

4 ÷ 10 = 0·4

c) Complete the calculation.

24 ÷ 10 = 2·4

Compare answers with a partner.

2 **a)** Draw counters to represent 30 on the place value chart.

Tens	Ones •	Tenths
○ ○○		

Complete the division.

30 ÷ 10 = 3

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

Tens	Ones •	Tenths
	○ ○○	

b) Draw counters to show 35 on the place value chart.

Tens	Ones •	Tenths
○ ○○	○○○○○	

Complete the division.

35 ÷ 10 = 3·5

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

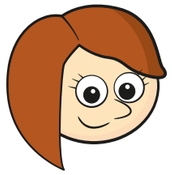
Tens	Ones •	Tenths
	○ ○○	○○○○○

c) What do you notice about your answers in parts a) and b)?

d) Complete the sentence.

When dividing by 10, you move the counters 1 place to the right.

3



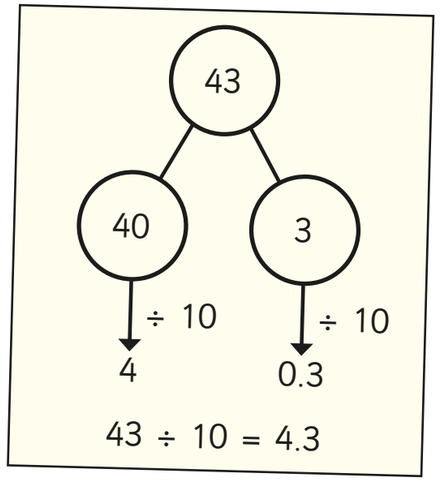
You can't share 13 between 10 because 13 is not a multiple of 10

Do you agree with Rosie? No

Explain your answer.

4 Dexter is calculating 43 ÷ 10

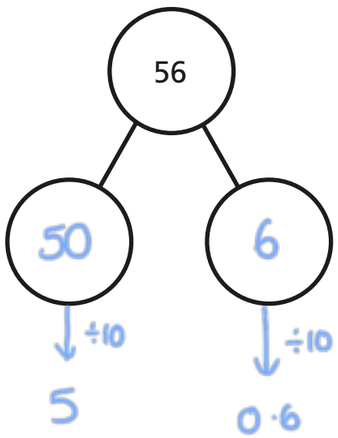
Here are Dexter's workings.



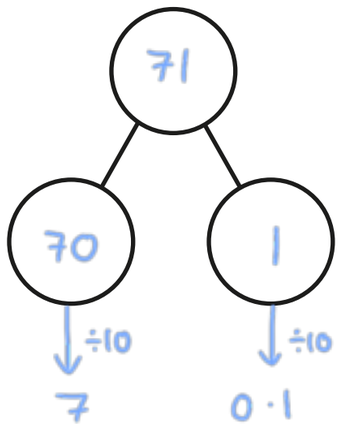
a) Talk to a partner about why Dexter's method works.

b) Use Dexter's method to complete the divisions.

56 ÷ 10 = 5·6



71 ÷ 10 = 7·1



5 Complete the divisions.

a) 37 ÷ 10 = 3·7

b) 11 ÷ 10 = 1·1

c) 48 ÷ 10 = 4·8

d) 99 ÷ 10 = 9·9

e) 80 ÷ 10 = 8

f) 2·9 = 29 ÷ 10

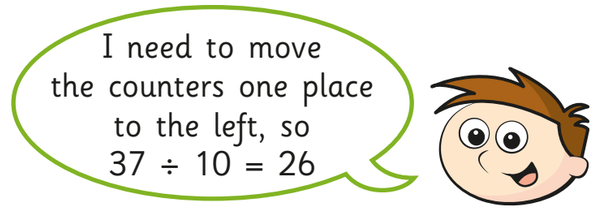
g) 63 ÷ 10 = 6.3

h) 3.9 = 39 ÷ 10

6 This Gattegno chart shows the number 37

100	200	300	400	500	600	700	800	900
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)



I need to move the counters one place to the left, so 37 ÷ 10 = 26

Do you agree with Teddy? No

Explain your answer.

37 ÷ 10 = 3·7

b) How can you use a Gattegno chart to divide by 10?