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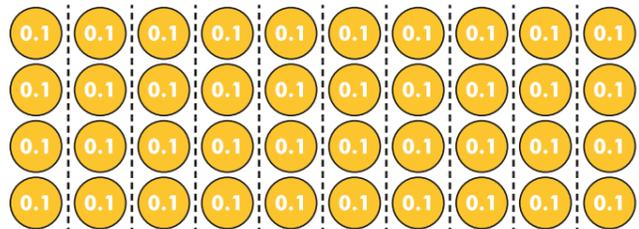

Complete the calculation.

$20 \div 10 =$ 2

b) The array shows 4 shared between 10

Complete the calculation.

$4 \div 10 =$ 0·4

c) Complete the calculation.

$24 \div 10 =$ 2·4

Compare answers with a partner.

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

Tens	Ones	Tenths
O OO		

Complete the division.

$30 \div 10 =$ 3

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

Tens	Ones	Tenths
	O OO	

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

Tens	Ones	Tenths
O OO	OOOOO	

Complete the division.

$35 \div 10 =$ 3·5

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

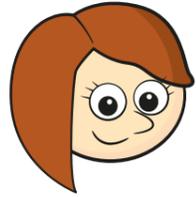| Tens	Ones	Tenths
	O OO	O OOOO

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

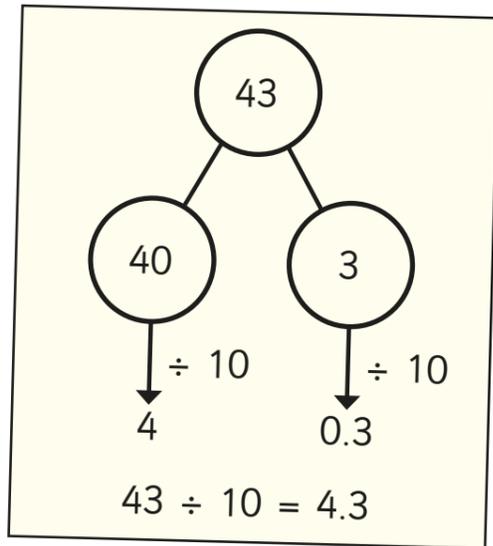You can't share 13 between 10 because 13 is not a multiple of 10

Do you agree with Rosie? __No__

Explain your answer.

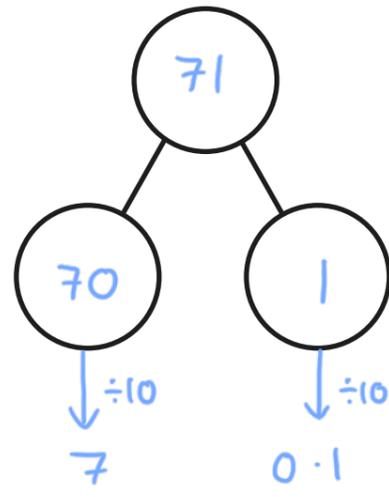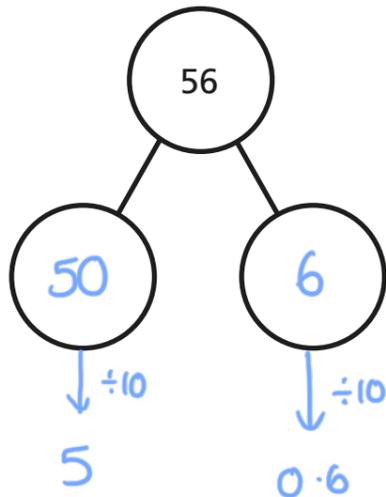**4** Dexter is calculating 43 ÷ 10

Here are Dexter's workings.

43

40   3

÷ 10   ÷ 10

4   0.3

43 ÷ 10 = 4.3

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

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

56 ÷ 10 = $\boxed{5\cdot6}$ 71 ÷ 10 = $\boxed{7\cdot1}$

56   71

50   6   70   1

÷10   ÷10   ÷10   ÷10

5   0·6   7   0·1

5 Complete the divisions.

a) 37 ÷ 10 = $\boxed{3\cdot7}$ **e)** 80 ÷ 10 = $\boxed{8}$

b) 11 ÷ 10 = $\boxed{1\cdot1}$ **f)** $\boxed{2\cdot9}$ = 29 ÷ 10

c) 48 ÷ 10 = $\boxed{4\cdot8}$ **g)** $\boxed{63}$ ÷ 10 = 6.3

d) 99 ÷ 10 = $\boxed{9\cdot9}$ **h)** 3.9 = $\boxed{39}$ ÷ 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.

$\underline{37 \div 10 = 3\cdot7}$

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