Diving into Mastery

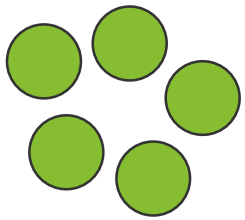
Divide 1 Digit by 10

Aim

- Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.

Divide 1 Digit by 10 | **Diving**

Complete the place value grid to solve the calculation.

Ones	•	tenths
	•	

$5 \div 10 = 0.5$

When dividing by 10, we move the counters one place to the right.

Divide 1 Digit by 10 | **Diving**

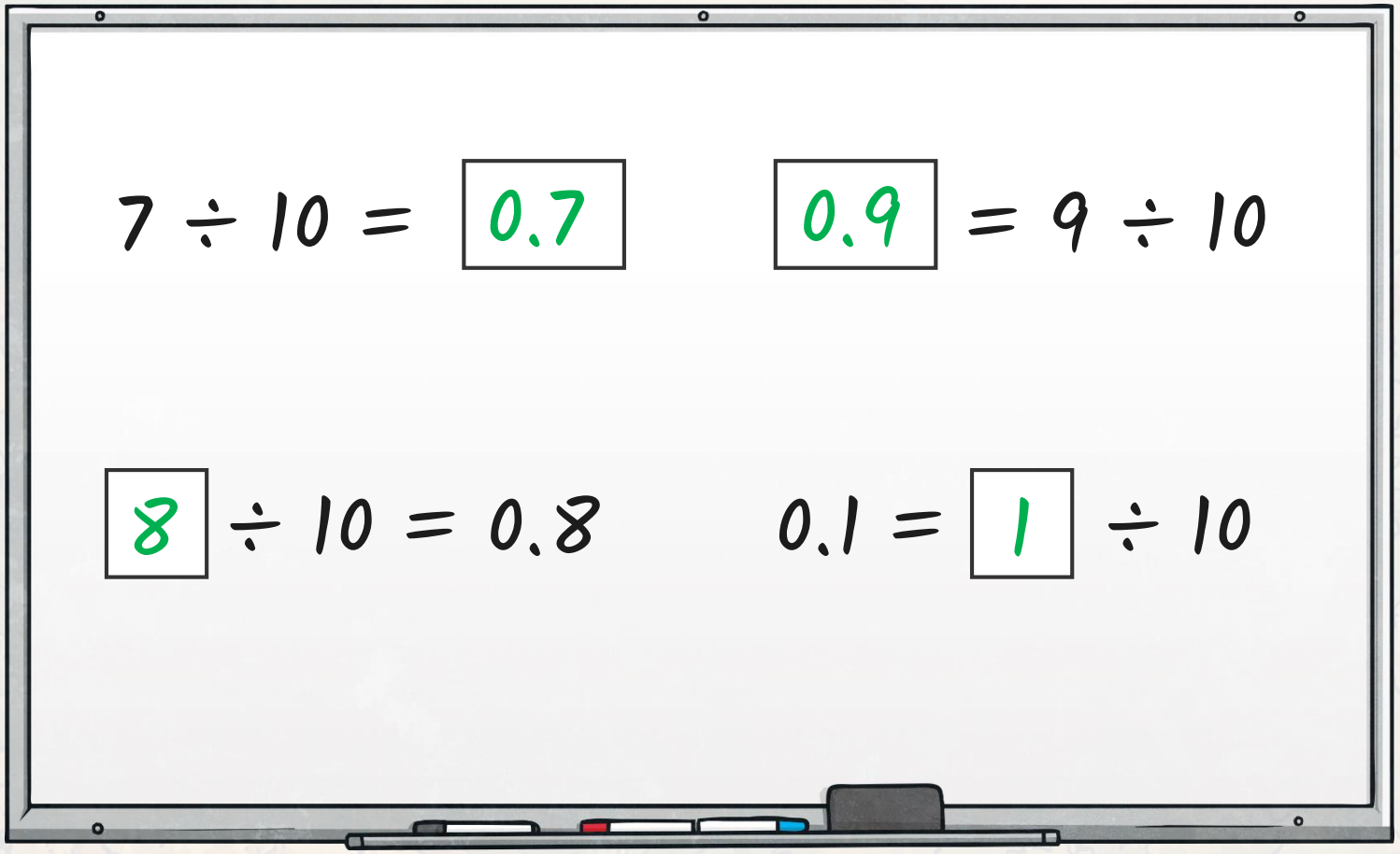
Move the digit on the place value grid to answer the calculation.

Ones	•	tenths
3	•	

$3 \div 10 = 0.3$

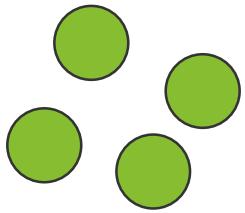
Divide 1 Digit by 10 | **Diving**

Solve these calculations.

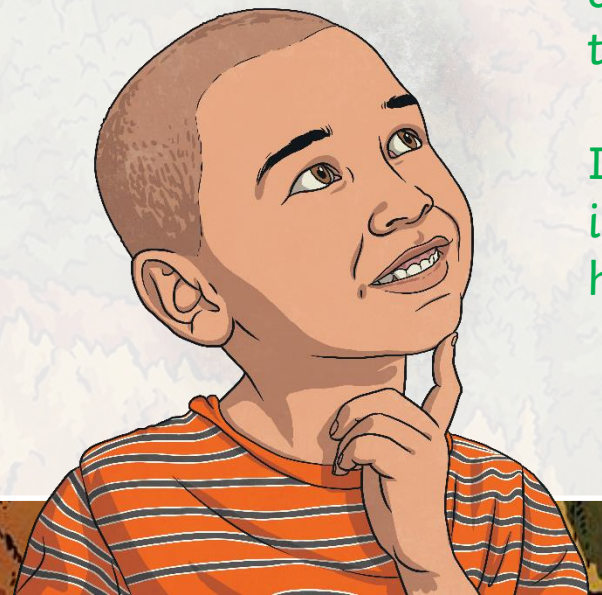


Divide 1 Digit by 10 **Deeper**

Explain and correct the mistake that Anton has made.

Ones •	tenths
	

$4 \div 10 = 4$



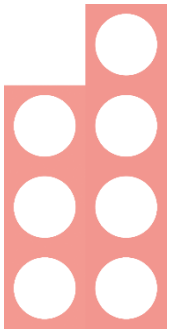
Anton has forgotten to move the 4 counters in the ones column into the tenths column.

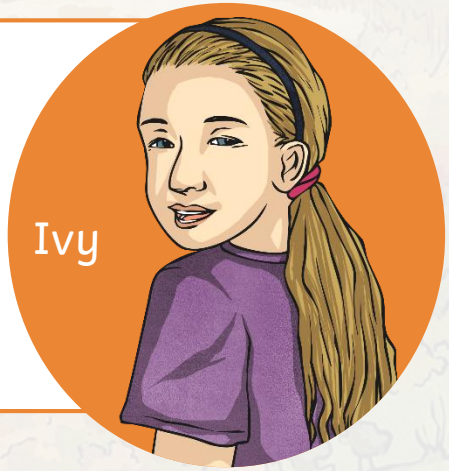
If he moved the counters correctly in this way, it would show that 4 has been divided by 10 to make 0.4.

Divide 1 Digit by 10 **Deeper**

Mario's number is 10 times smaller than Ivy's number.

0.1 0.1 0.1 0.1
0.1 0.1 0.1
0.1





True or false?

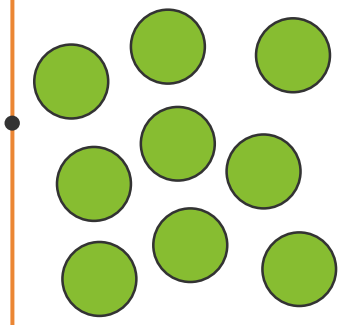
Explain your answer.

False. Mario's image represents 0.8 and Ivy's image represents the number 7.

0.8 is not 10 times smaller than 7.

Divide 1 Digit by 10 **Deeper**

The place value grid shows the answer to the calculation '9 shared equally between 10'.

Ones	tenths
	

Do you agree or disagree? Why?

Agree. This place value grid represents the number 0.9. When you divide 9 by 10, the 9 ones counters move 1 column to the right into the tenths column. This makes 0.9 so 9 ÷ 10 = 0.9.

Divide 1 Digit by 10 | **Deepest**

Complete the table.

Type of Tree	Average Growth in 10 Years	Average Growth in 1 Year
oak	3m	0.3m
chestnut	5m	0.5m
pine	8m	0.8m
sycamore	6m	0.6m

Divide 1 Digit by 10 **Deepest**

Use the digit cards to complete these number sentences.
Each card may only be used once.

$42 \div \boxed{7} \div 10 = 6 \div 10$

$16 \div \boxed{4} \div 10 < \boxed{5} \div 10$

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