

Maths Monday Answers:

**1. There are 10 squares shaded out of 100. There is one row out of 10.
The shaded area is $10/100$ or $1/10$**

- There are 35 squares shaded out of 100. $35/100$

2. $7/100$ 0.07

3. Show your teacher.

4. $3/10$, 0.7, $9/100$, 0.93

5. The third one is the odd one out as it represents $6/10$. The other ten frames all show $5/10$.

6. I agree with both however when we write $70/100$ as a decimal we do not need to include the 0. So Eva has represented the decimal correctly.

16.06.20

I can divide a 2-digit number by 10 and 100.

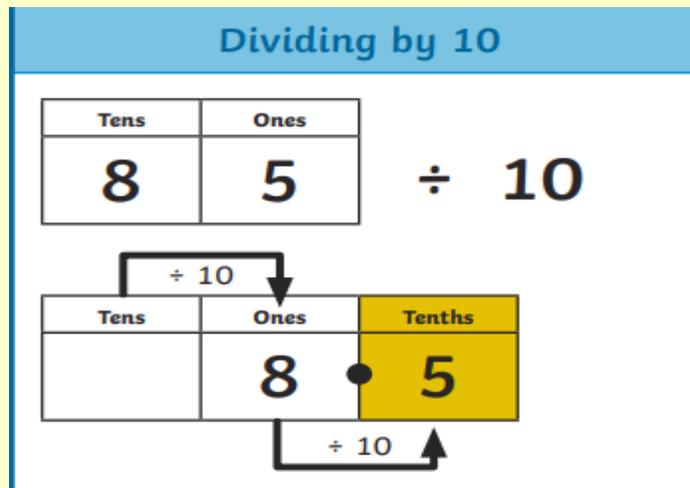
Recap on dividing by 10 and 100:

<https://www.youtube.com/watch?v=PPMnbH2M0io&t=117s>

Key Vocabulary
tenths
hundredths
decimal tenths
decimal hundredths
decimal equivalents
part-whole model
rounding
decimal point
place value

Dividing numbers by 10

When you divide any number by 10 the number is being divided into 10 equal parts which means it is becoming 10 times smaller. This is why the place value moves one place to the right.



Let's Practice!

Draw a place value grid that includes tenths and hundredths.

Use objects to represent your numbers or write the numbers on cards.

$$93 \div 10 =$$

$$345 \div 10 =$$

$$3.2 \div 10 =$$

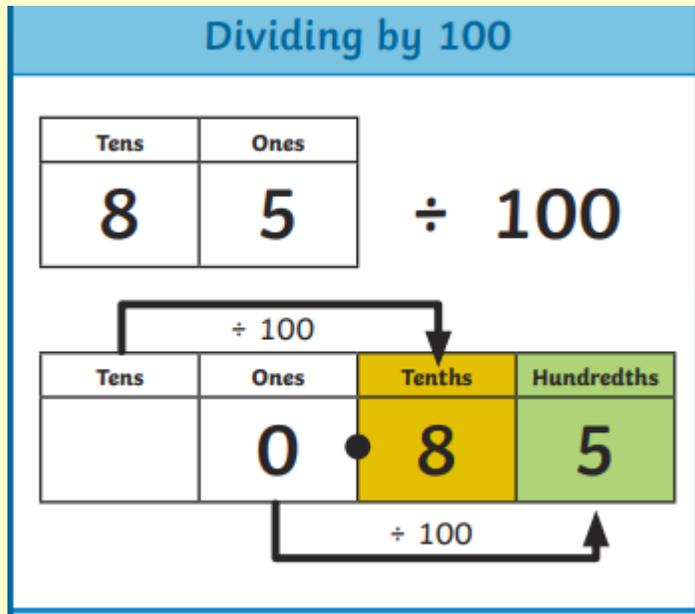
Can you write a list of steps to help you remember what to do when dividing by 10?

85

8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5

Dividing numbers by 100

Like when dividing numbers by 10 my place value changes when dividing by 100. This time the numbers are broken into 100 equal parts which means the number is becoming 100 times smaller. This is why my number will move two place values to the right.



Lets practice:

Using your place value grid try dividing this numbers by 100:

$$32 \div 100 =$$

$$420 \div 100 =$$

$$85 \div 100 =$$

$$15 \div 100 =$$

Can you write a list of steps to help you remember what to do when dividing by 100?

Activities:

1. Here is a 2-digit number on a place value grid:

Tens	Ones	Tenths	Hundredths
	●●●●●	●●	

When dividing by 10, we move the digits 1 place to the _____.

$82 \div 10 = \square$

Use this method to solve:

$55 \div 10 = \square$ $\square = 90 \div 10$ $3.2 = \square \div 10$

2. Here is a 2-digit number on a place value grid:

Tens	Ones	Tenths	Hundredths
7	2		

When dividing by 100, we move the digits 2 places to the _____.

$72 \div 100 = \square$

Use this method to solve:

$$85 \div 100 =$$

$$5 \div 100 =$$

$$321 \div 100 =$$

3. Fill in the missing numbers:

$$325 \div \underline{\quad} = 32.5$$

$$\underline{\quad} \div 100 = 0.75$$

$$95 \div \underline{\quad} = 0.95$$

$$\underline{\quad} \div 10 = 0.43$$

$$87 \div \underline{\quad} = 0.87$$

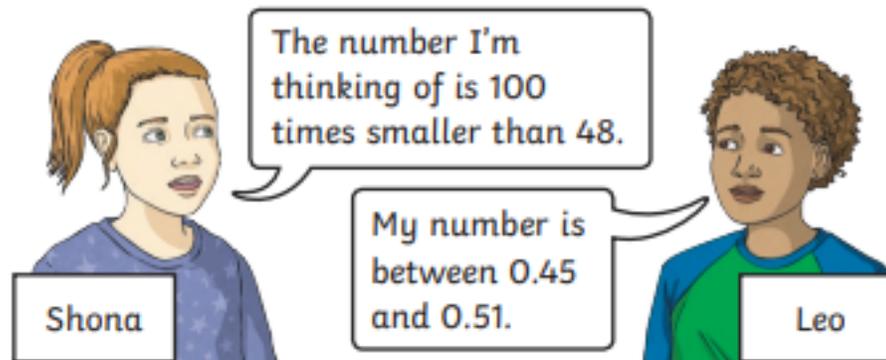
4. Amina's bed is 190 cm in length and 91 cm in width. She is making a **one-tenth** scale model of the bed. What are the length and width of Amina's model?

Challenge:

When a 2-digit number is divided by 100, the answer will always be greater than when a 1-digit number is divided by 100.



- 1) Is this statement always, sometimes or never true? Give 4 examples to show why you think this is so and explain your decision.
- 2) Two children are thinking of a number.



- a) Leo says that he definitely has the greater number. Shona says that you can't say who has the greater number from the information given. Who is correct? How do you know?
- b) If Leo does have the greater number, what number divided by 100 could give his answer?