

White

**Rose
Maths**

Year 4 - Autumn - Block 4

Multiplication & Division

While in Wonderland, Alice drank a potion and everything shrank. All the items around her became ten times smaller! Are these measurements correct?

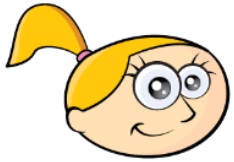
Item	Original measurement	After shrinking
Height of a door	220 cm	2,200 cm
Her height	160 cm	16 cm
Length of a book	340 mm	43 mm
Height of a mug	220 mm	?

Can you fill in the missing measurement?

Can you explain what Alice did wrong?

Write a calculation to help you explain each item.

Eva and Whitney are dividing numbers by 10 and 100
They both start with the same 4-digit number.
They give some clues about their answer.



Eva

My answer has 8 ones
and 2 tens.

My answer has 2
hundreds, 8 tens and 0
ones.



Whitney

What number did they both start with?
Who divided by what?

Use the digit cards to fill in the missing digits.



$$170 \div 10 = \underline{\quad} \underline{\quad}$$

$$\underline{\quad}20 \times 10 = 3,\underline{\quad}00$$

$$1,8\underline{\quad}0 \div 10 = 1\underline{\quad}6$$

$$\underline{\quad}9 \times 100 = 5,\underline{\quad}00$$

$$6\underline{\quad} = 6,400 \div 100$$

Which answer could be the odd one out?
What makes it the odd one out?

$$3 + 0 = \underline{\hspace{2cm}}$$

$$3 - 0 = \underline{\hspace{2cm}}$$

$$3 \times 0 = \underline{\hspace{2cm}}$$

Explain why the answer is different.

Circle the incorrect calculations and write them correctly.

$$5 \times 0 = 50$$

$$19 \times 1 = 19$$

$$7 \times 0 = 7$$

$$1 \times 1 = 2$$

$$0 \times 35 = 0$$

$$0 \times 0 = 1$$

$$1 \times 8 = 9$$

Choose one calculation and create a drawing to show it.