Maths Wednesday answers

680 = 68 tens | 680 ÷ 10 = 68		380 = 38 tens	380 ÷ 10 = 38
300 = 30 tens	300 ÷ 10 = 30	570 = 57 tens	570 ÷ 10 = 57
130 = 13 tens	130 ÷ 10 = 13	660 = 66 tens	660 ÷ 10 = 66
220 = 22 tens	220 ÷ 10 = 22	790 = 79 tens	790 ÷ 10 = 79
320 = 32 tens	320 ÷ 10 = 32	500 = 50 tens	500 ÷ 10 = 50

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?

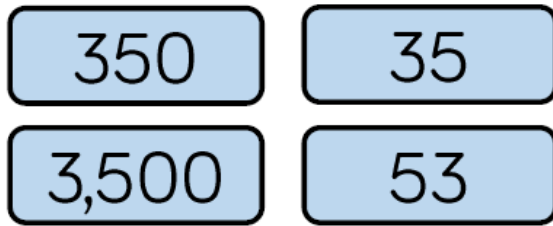Write a calculation to help you explain each item.

Height of a door
Incorrect – Alice has multiplied by 10.

Her height
Correct

Length of a book
Incorrect – Alice has swapped the order of the digits. When dividing by 10 the order of the digits never changes.

Height of a mug
22 mm.

Four children are in a race. The numbers on their vests are:

350	35
3,500	53

Use the clues to match each vest number to a child.

- Jack's number is ten times smaller than Mo's.
- Alex's number is not ten times smaller than Jack's or Dora's or Mo's.
- Dora's number is ten times smaller than Jack's.

Alex – 53

Jack – 350

Dora – 35

Mo – 3,500