

Describe the pattern.

$$7,000 \div 100 = 70$$

$$700 \div 100 = 7$$

$$70 \div 100 = 0.7$$

$$7 \div 100 = 0.07$$

Can you complete the pattern starting with 5,300 divided by 100?

Children will describe the pattern they see e.g. 7,000 is 10 times bigger than 700, therefore the answer has to be 10 times bigger as the divisor has remained the same.

For 5,300:

$$5,300 \div 100 = 53$$

$$530 \div 100 = 5.3$$

$$53 \div 100 = 0.53$$

$$5.3 \div 100 = 0.053$$

Teddy says,

45 divided by 100 is 0.45
so I know 0.45 is 100
times smaller than 45



Mo says,

45 divided by 100 is 0.45
so I know 45 is 100 times
bigger than 0.45



Who is correct?
Explain your answer.

Teddy and Mo are both correct. Children may use a place value chart to help them explain their answer.