

HTh	TTh	Th	H	T	O
			● ●	● ● ●	● ● ● ●

What number is represented on the grid?

When I multiply this number by 10, where will I move my counters? You could draw the grid to help.

Is this always the case when multiplying by 10?

What will my new number be?

Write the multiplication sentence.

Repeat for multiplying by 100 and 1,000

HTh	TTh	Th	H	T	O
	●	● ●	● ● ●		

What number is represented in the grid?

Divide the number by 10. You could draw the new grid to help, if you like.

Which direction do the counters move? How many columns?

What is the number now?

Write the division equation.

Repeat for dividing by 100 and 1,000.

Whitney has £1,020 in her bank account.

Tommy has £120 in his bank account.

Whitney says,



I have ten times
more money than
you

Is Whitney correct? Explain your reasoning.

ANSWERS

HTh	TTh	Th	H	T	O
			● ●	● ● ●	● ● ● ●

What number is represented on the grid? 234

When I multiply this number by 10, where will I move my counters? One place to the left

Is this always the case when multiplying by 10? YES

What will my new number be? 2,340

Write the multiplication sentence. $234 \times 10 = 2,340$

Repeat for multiplying by 100 and 1,000

$234 \times 100 = 23,400$

$234 \times 1000 = 234,000$

HTh	TTh	Th	H	T	O
	●	● ●	● ● ●		

What number is represented in the grid? 12,300

Divide the number by 10. You could draw the new grid to help, if you like.

Which direction do the counters move? How many columns? Right – one column

What is the number now? 1,230

Write the division equation. $12,300 \div 10 = 1,230$

Repeat for dividing by 100 and 1,000.

$12,300 \div 100 = 123$

$12,300 \div 1000 = 12.3$

Whitney has £1,020 in her bank account.

Tommy has £120 in his bank account.

Whitney says,



I have ten times
more money than
you

Whitney is
incorrect, she
would need to
have £1,200 if this
were the case (Or
Tommy would
need to be £102).

Is Whitney correct? Explain your reasoning.