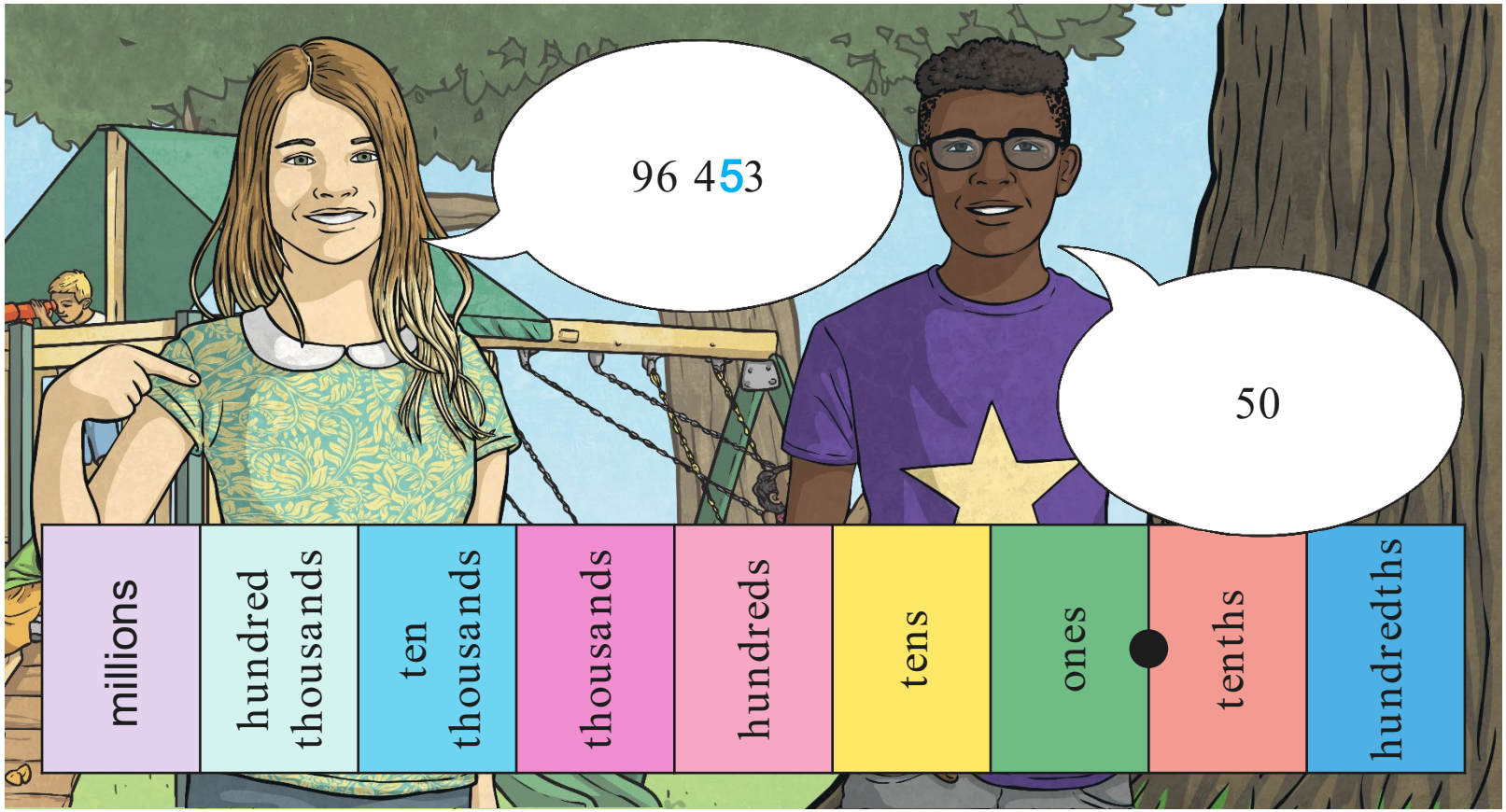
Time Flies

Place Value

Whole Class

What do the highlighted digits in these numbers stand for?



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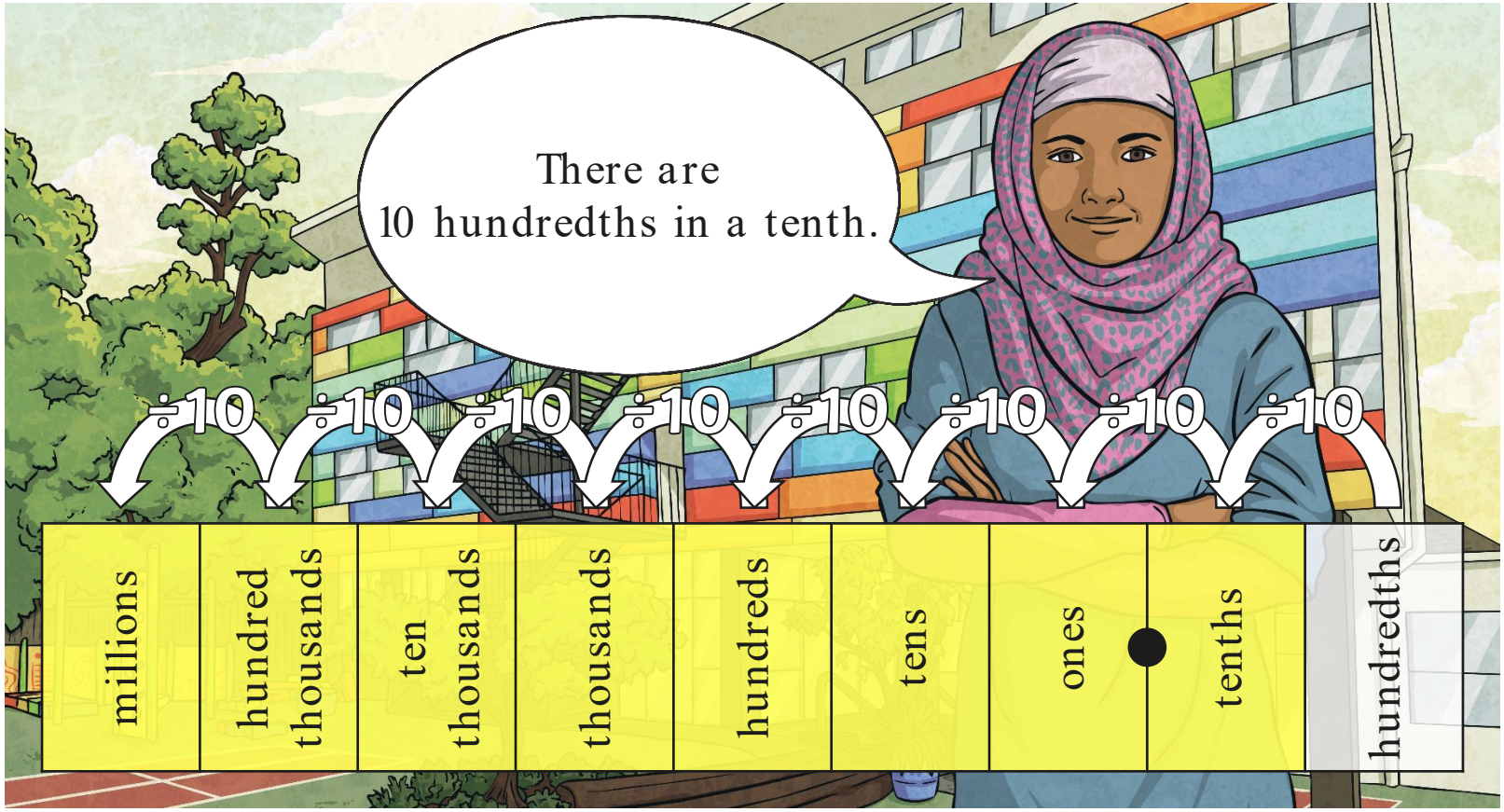
10 Times Smaller

As we move along the grid from left to right,
the numbers get 10 times smaller.



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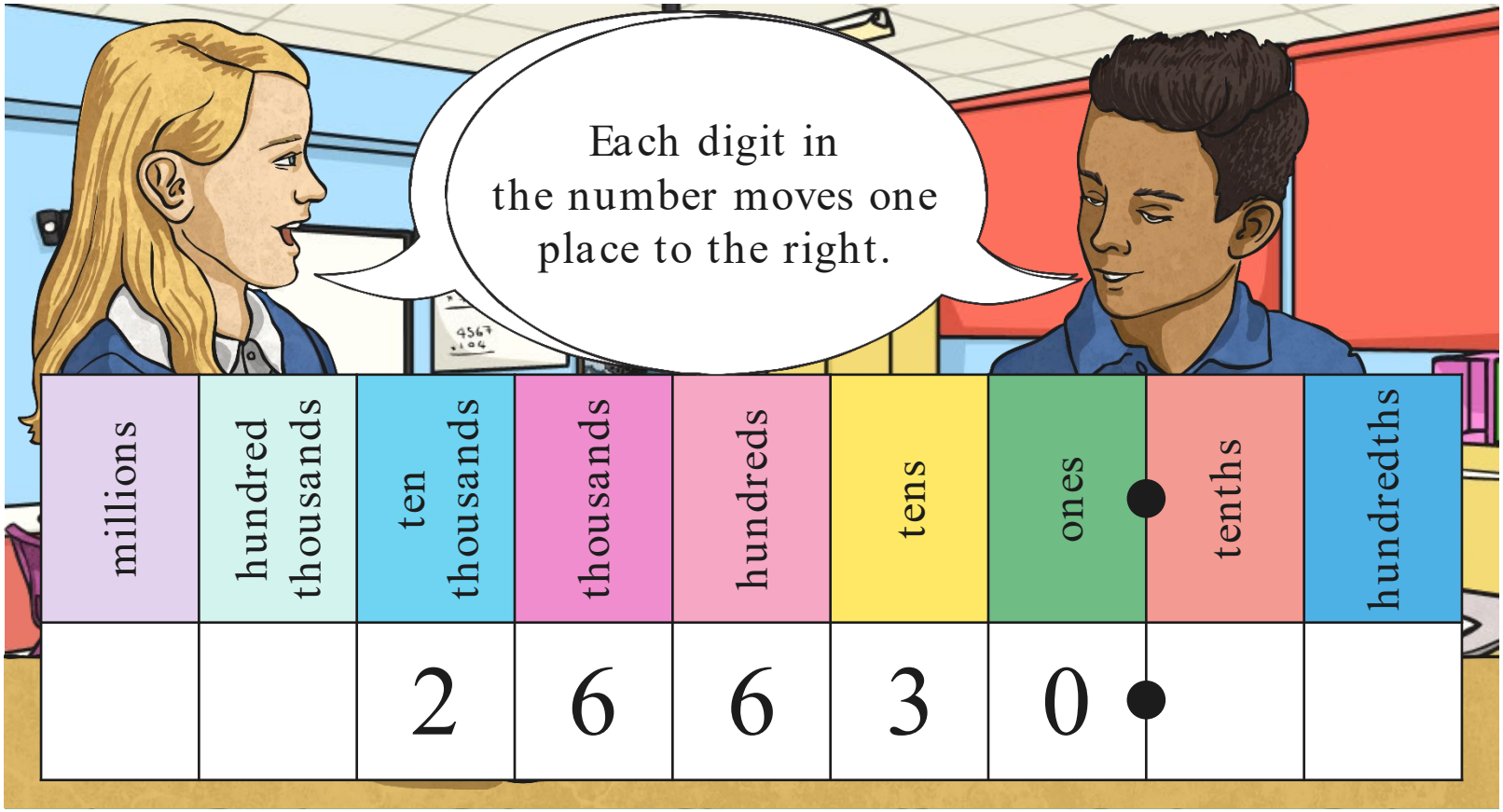
Dividing by 10

When we divide by 10, the number gets 10 times smaller.



millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	tenths	hundredths
		2	6	6	3	0		

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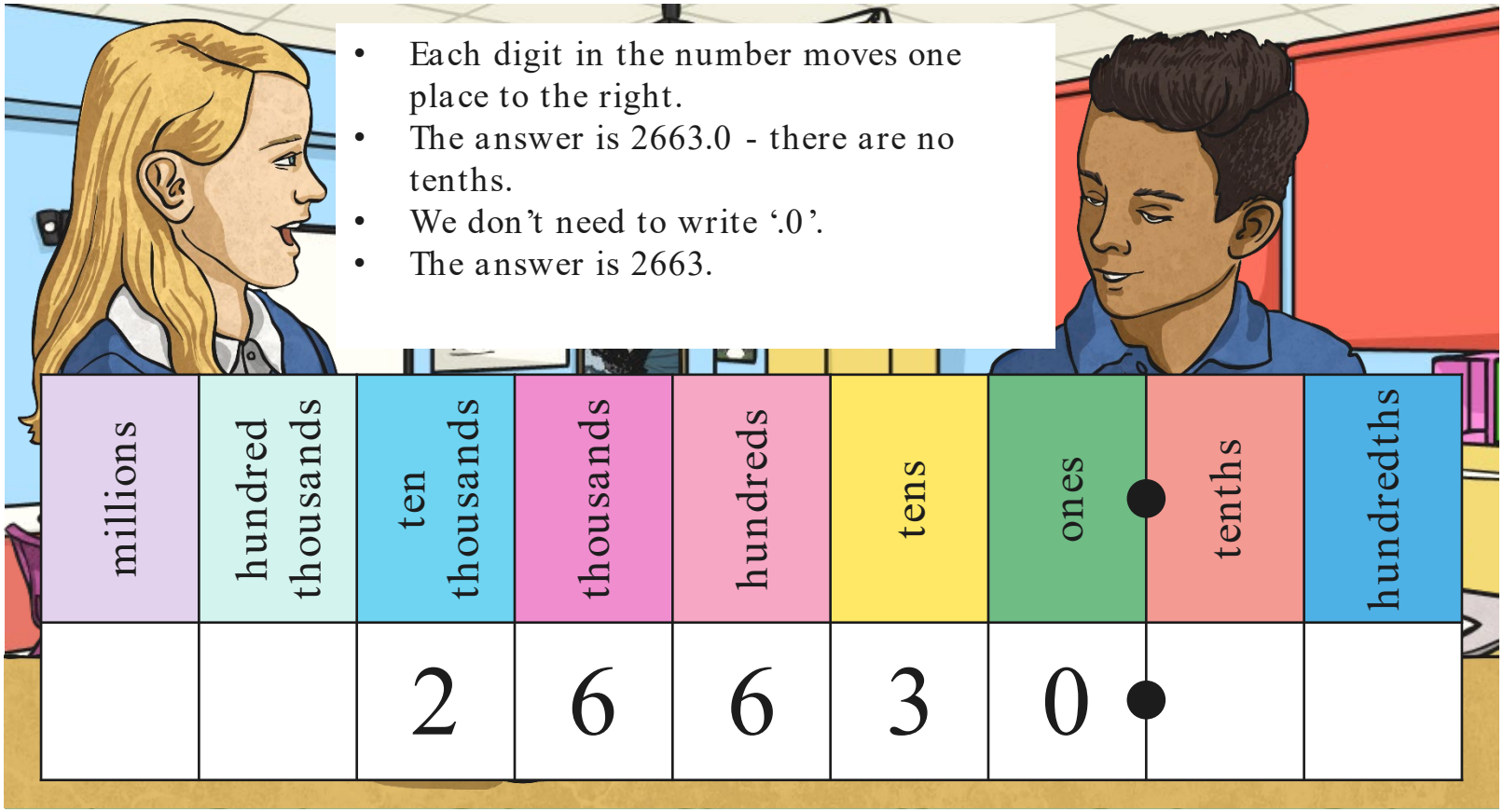
Dividing by 10

When we divide by 10, the number gets 10 times smaller.



- Each digit in the number moves one place to the right.
- The answer is 2663.0 - there are no tenths.
- We don't need to write '.0'.
- The answer is 2663.

millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	tenths	hundredths
		2	6	6	3	0		

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You try

- $50 \div 10 =$
- $500 \div 10 =$
- $1560 \div 10 =$
- $10,500 \div 10 =$

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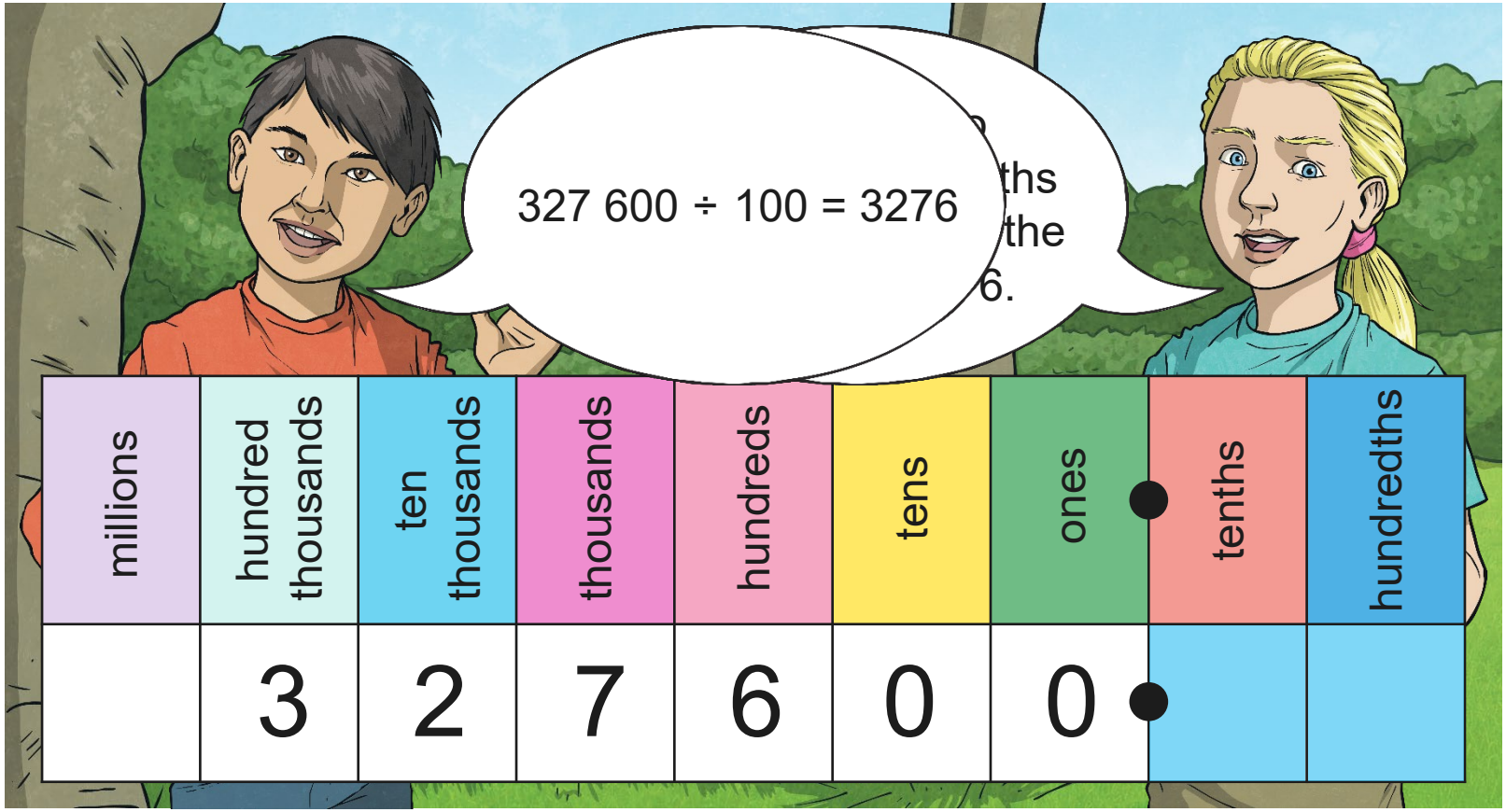
Dividing by 100



millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	tenths	hundredths
	3	2	7	6	0	0		

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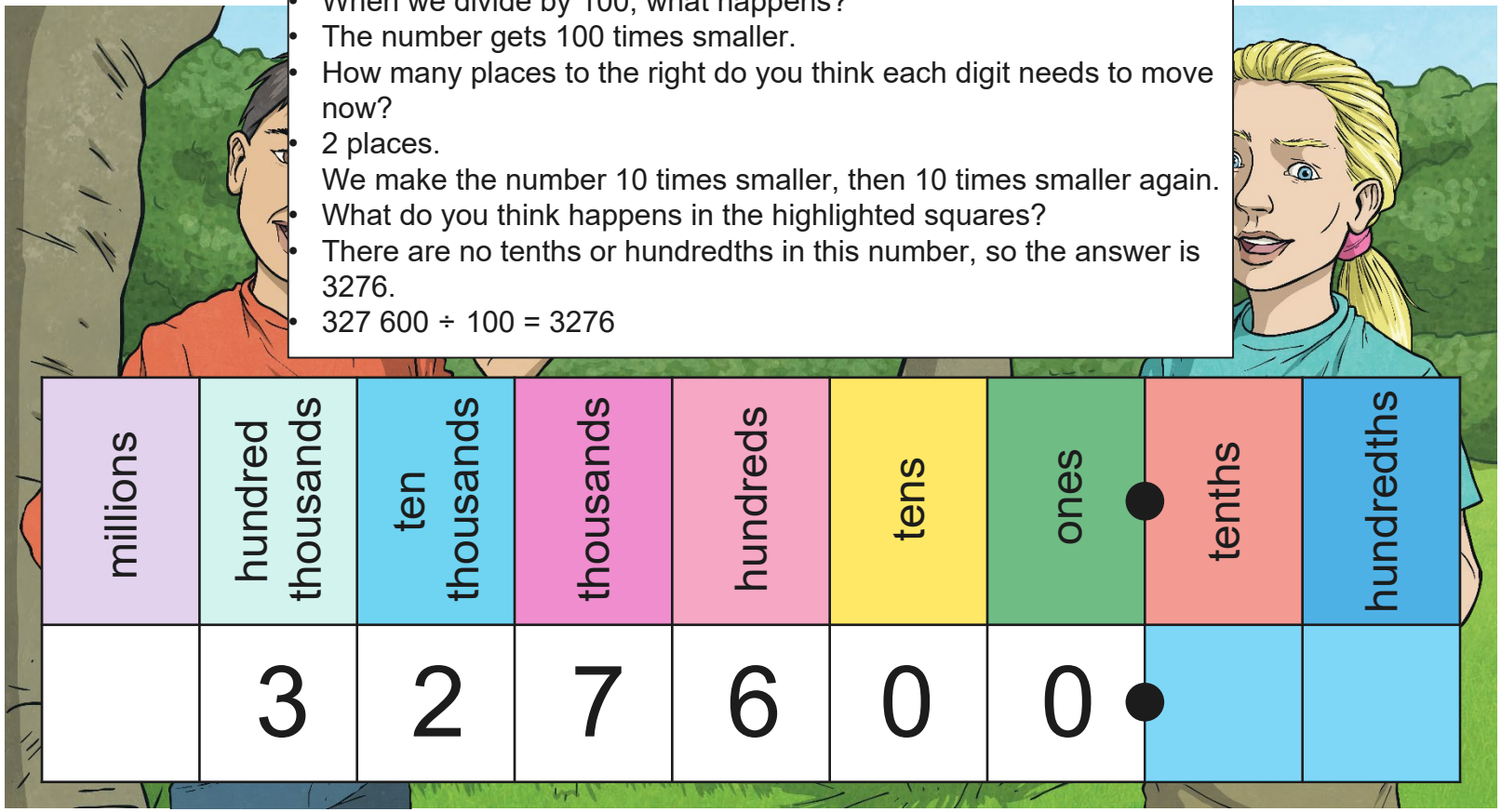
Dividing by 100

- When we divide by 100, what happens?
- The number gets 100 times smaller.
- How many places to the right do you think each digit needs to move now?
- 2 places.

  We make the number 10 times smaller, then 10 times smaller again.
- What do you think happens in the highlighted squares?
- There are no tenths or hundredths in this number, so the answer is 3276.
- 327 600 ÷ 100 = 3276



millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	tenths	hundredths
	3	2	7	6	0	0		

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You try

- $700 \div 100 =$
- $8600 \div 100 =$
- $189,000 \div 100 =$
- $70,000 \div 100 =$

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Dividing by 1000

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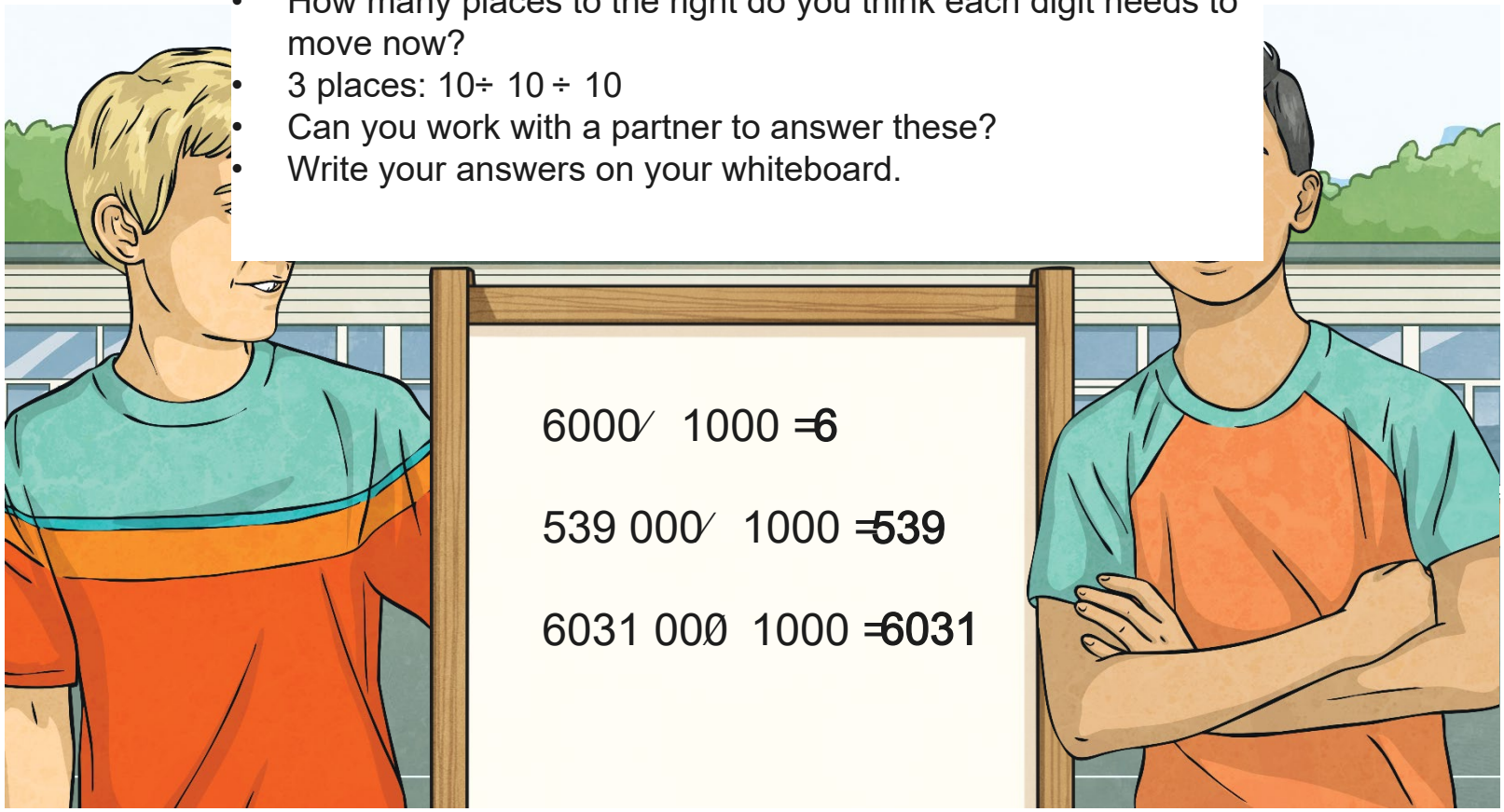
Dividing by 1000

- When we divide by 1000, what happens?
- The number gets 1000 times smaller.
- How many places to the right do you think each digit needs to move now?
- 3 places: 10÷ 10 ÷ 10
- Can you work with a partner to answer these?
- Write your answers on your whiteboard.



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You try

- $9000 \div 1000 =$
- $96,000 \div 100 =$
- $180,000 \div 1000 =$
- $1,570,000 \div 1000 =$

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Try these

- $70 \div 10 =$
- $8500 \div 100 =$
- $1780 \div 10 =$
- $18{,}000 \div 1000 =$
- $16{,}000 \div 100 =$

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