

# Treasure Island



twinkl

# Kilometres to Metres



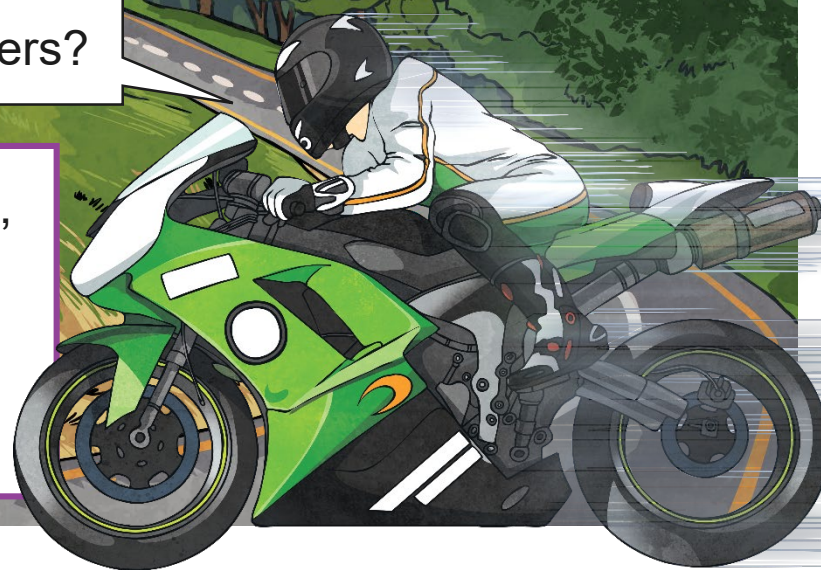
A kilometre is made up of 1000 metres.

How many metres are there in

| 2km?  | 3km?  | 4km?  | 5km?  | 6km?  | 7km?  | 8km?  | 9km?  | 10km?   |
|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| 2000m | 3000m | 4000m | 5000m | 6000m | 7000m | 8000m | 9000m | 10 000m |

What do you notice about the answers?

Metres are smaller than kilometres, so there are more of them in the same length. There are **a thousand times more** metres in the same length than kilometres.





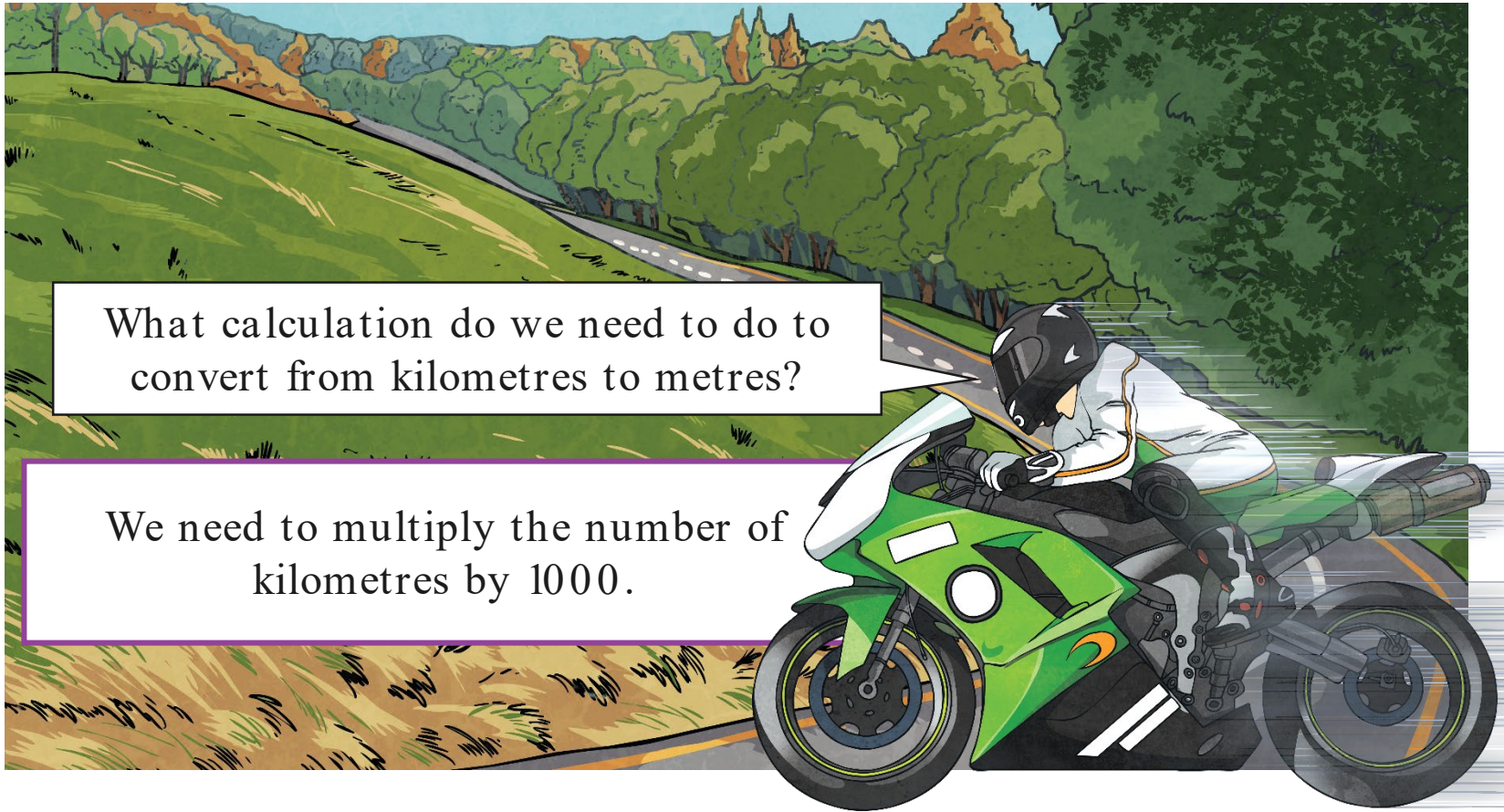
# Kilometres to Metres



A kilometre is made up of 1000 metres.

What calculation do we need to do to convert from kilometres to metres?

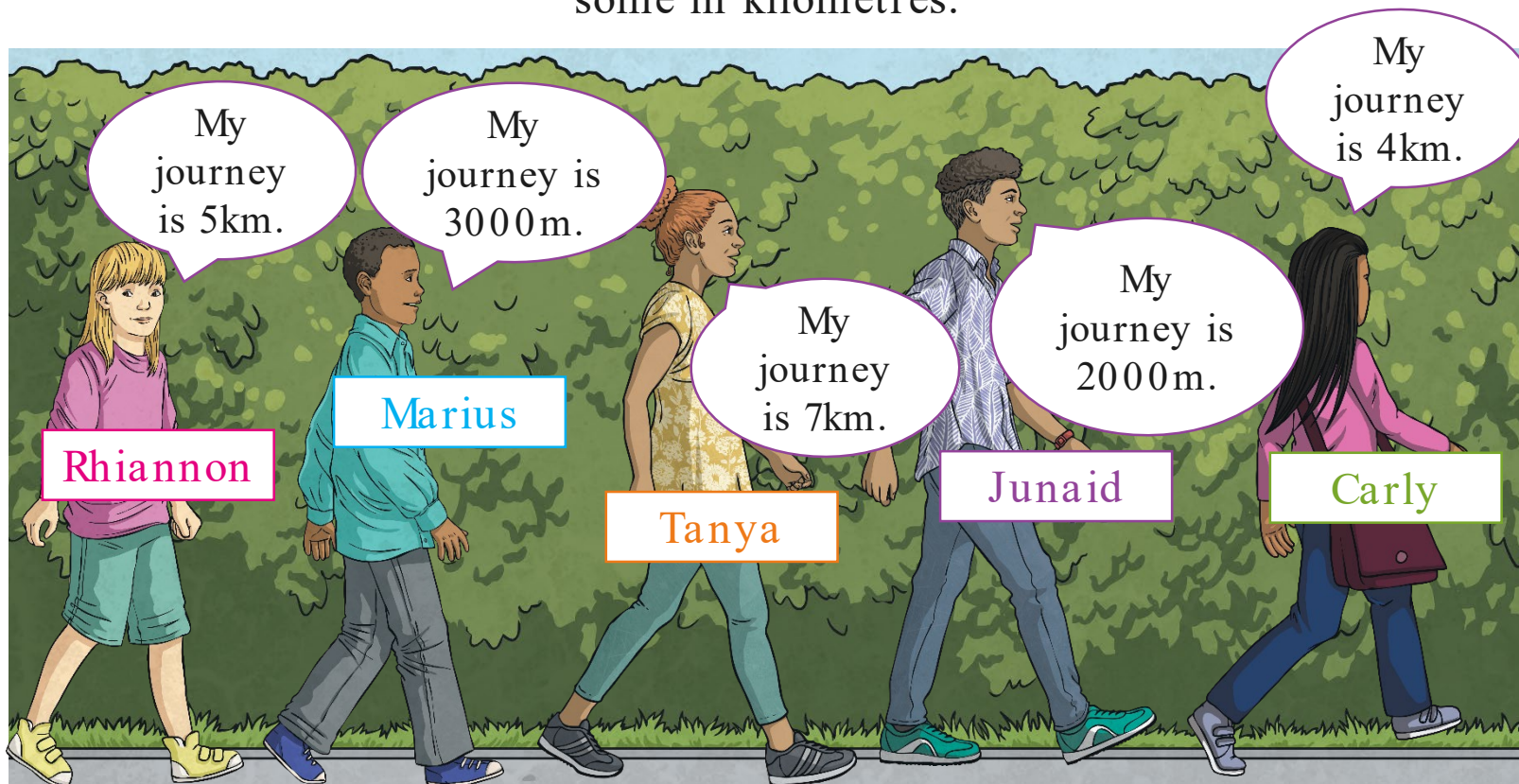
We need to multiply the number of kilometres by 1000.



# Kilometres to Metres



A group of children in Class 4W measured the distance of their journey from home to school. Some children said the distance in metres and some in kilometres.





# Multiplying and Dividing by 1000



$$5\text{km} = 5000\text{m}$$

What calculation did we do to convert from kilometres to metres?

$5 \times 1000 = 5000$

| thousands | hundreds | tens | ones | tenths | hundredths | thousandths |
|-----------|----------|------|------|--------|------------|-------------|
|           |          |      | 5    | ●      |            |             |
| 5         | 0        | 0    | 0    | ●      |            |             |

To convert from kilometres to metres, we multiply by 1000. To multiply by 1000, each digit moves three places to the left:

# Multiplying and Dividing by 1000



What would 3.5km be in metres?

| thousands | hundreds | tens | ones | tenths | hundredths | thousandths |
|-----------|----------|------|------|--------|------------|-------------|
|           |          |      | 3    | ●      | 5          |             |
| 3         | 5        | 0    | 0    | ●      |            |             |

To convert from kilometres to metres, we multiply by 1000. To multiply by 1000, each digit moves three places to the left:

# Multiplying and Dividing by 1000



$$5\text{km} = 5000\text{m}$$

What calculation did we do to convert from kilometres to metres?

$$5 \times 1000 = 5000$$

We multiply by 1000 to convert kilometre measurements to metres. To convert from kilometres to metres, we multiply by 1000. To multiply by 1000, each digit moves the same way three places to the left:

| thousands | hundreds | tens | ones | tenths | hundredths | thousandths |
|-----------|----------|------|------|--------|------------|-------------|
|           | 0        | 0    | 5    | 0      | 0          | 0           |

# Multiplying and Dividing by 1000



What would 10.2km be in m?

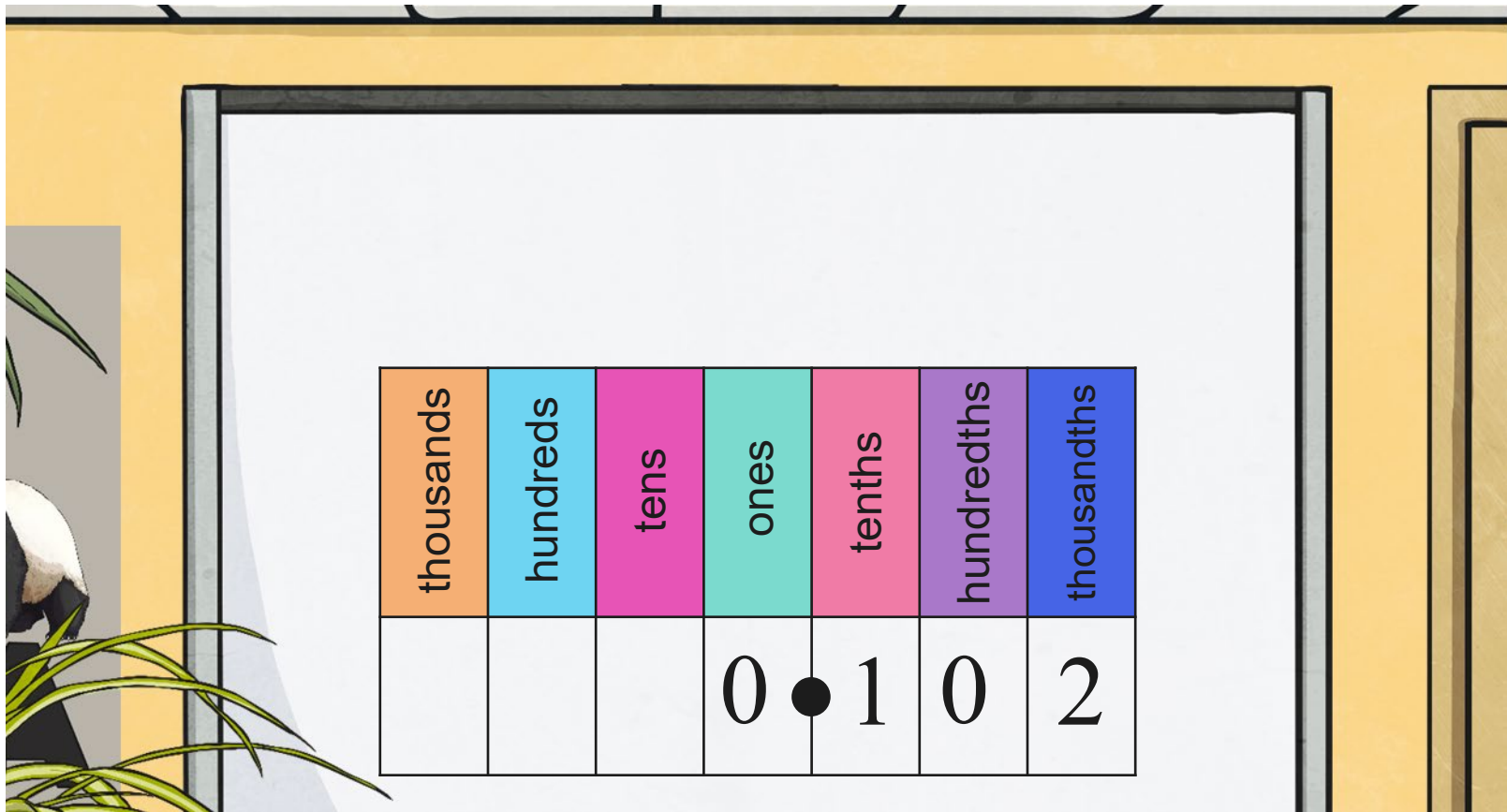
| ten thousands | thousands | hundreds | tens | ones | tenths | hundredths | thousandths |
|---------------|-----------|----------|------|------|--------|------------|-------------|
|               |           |          | 1    | 0    | • 2    |            |             |



# Multiplying and Dividing by 1000



What would 0.102 km be in m?



# Multiplying and Dividing by 1000



What would 0.11km be in m?

| thousands | hundreds | tens | ones | tenths | hundredths | thousandths |
|-----------|----------|------|------|--------|------------|-------------|
|           |          |      | 0    | • 1    | 1          |             |

# Multiplying and Dividing by 1000



Convert each measurement from kilometres to metres by multiplying the number by 1000.

Remember, before the decimal point, we must add zeros as a placeholder to fill the empty places.

| Kilometres | Metres |
|------------|--------|
| 2.852km    |        |
| 0.32km     |        |
| 8.91km     |        |
| 19.06km    |        |



# Multiplying and Dividing by 1000



Convert each measurement from kilometres to metres by multiplying the number by 1000.

Remember, before the decimal point, we must add zeros as a placeholder to fill the empty places.

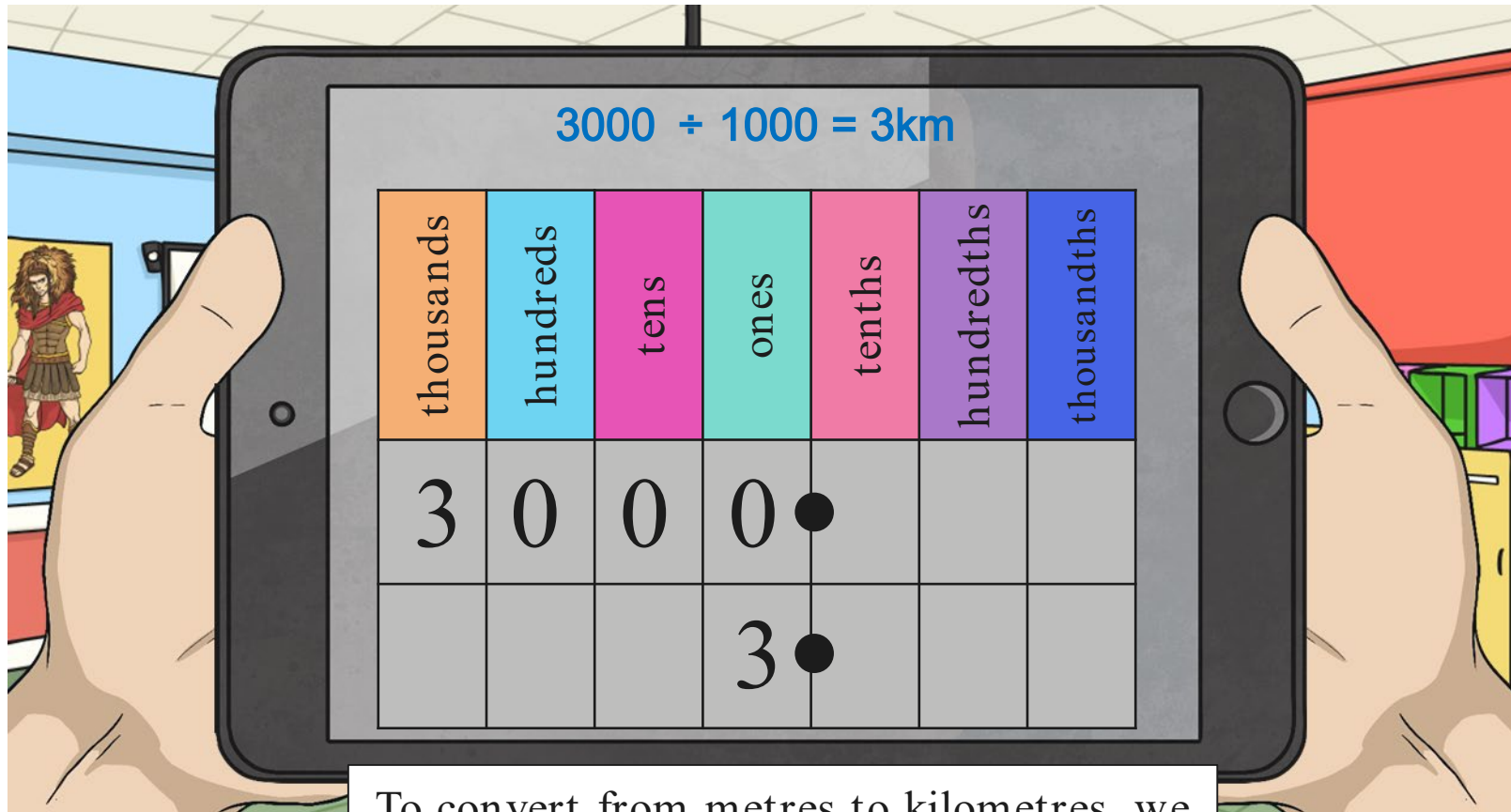
| Kilometres | Metres  |
|------------|---------|
| 2.852km    | 2852m   |
| 0.32km     | 320m    |
| 8.91km     | 8910m   |
| 19.06km    | 19 060m |

# Multiplying and Dividing by 1000



$$3000\text{m} = 3\text{km}$$

What calculation did we do to convert from metres to kilometres?



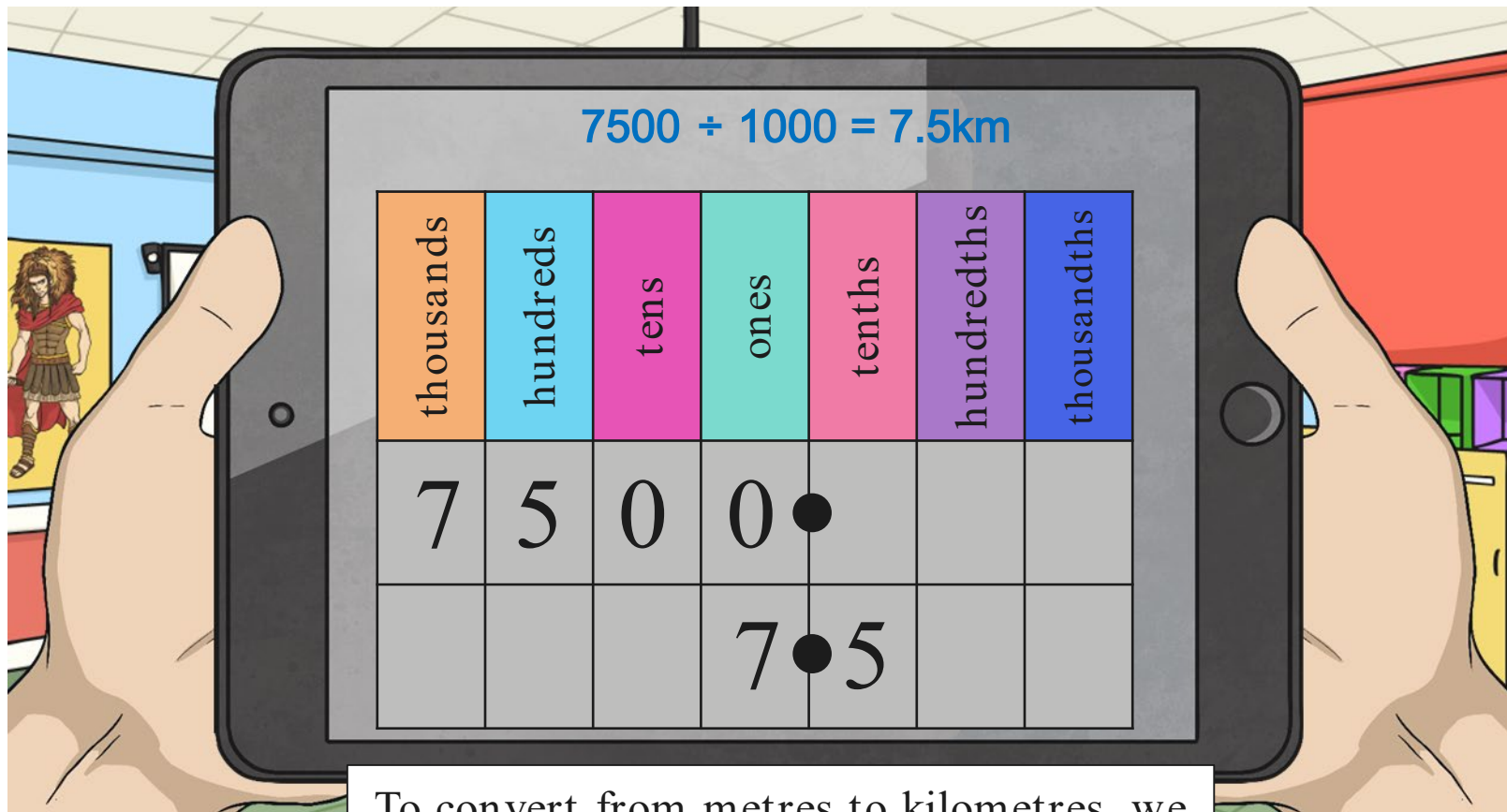
To convert from metres to kilometres, we divide by 1000. To divide by 1000, each digit moves three places to the right:

# Multiplying and Dividing by 1000



$$7500\text{m} = 7.5\text{km}$$

What calculation did we do to convert from metres to kilometres?



To convert from metres to kilometres, we divide by 1000. To divide by 1000, each digit moves three places to the right:



# Multiplying and Dividing by 1000



$$3000\text{m} = 3\text{km}$$

What calculation did we do to convert from metres to kilometres?

3000 ÷ 1000 = 3km

Sometimes dividing by 1000 gives us a decimal answer. To convert from metres to kilometres, we divide by 1000. To divide by 1000, each digit moves three places to the right:

3000m = 3.000km

| thousands | hundreds | tens | ones | tenths | hundredths | thousandths |
|-----------|----------|------|------|--------|------------|-------------|
| 3         | 0        | 0    | 0    | .      |            |             |

# Multiplying and Dividing by 1000



320m to km?

| thousands | hundreds | tens | ones | tenths | hundredths | thousandths |
|-----------|----------|------|------|--------|------------|-------------|
|           | 3        | 2    | 0    | .      |            |             |

320m = 0.32km

# Multiplying and Dividing by 1000



$$61\text{m} = 0.061\text{km}$$



# Multiplying and Dividing by 1000



300m to km?

| thousands | hundreds | tens | ones | tenths | hundredths | thousandths |
|-----------|----------|------|------|--------|------------|-------------|
|           | 3        | 0    | 0    | .      |            |             |

300m=0.3km

# Multiplying and Dividing by 1000



Convert each measurement from metres to kilometres by dividing the number by 1000.

Remember, after the decimal place, any zeros after the last digit in the number have no value – so we do not need to write them.

| Metres  | Kilometres |
|---------|------------|
| 3568m   |            |
| 113m    |            |
| 80m     |            |
| 18 600m |            |
| 8m      |            |

# Multiplying and Dividing by 1000



Convert each measurement from metres to kilometres by dividing the number by 1000.

Remember, after the decimal place, any zeros after the last digit in the number have no value – so we do not need to write them.

| Metres   | Kilometres |
|----------|------------|
| 3568m    | 3.568km    |
| 113m     | 0.113km    |
| 80 m     | 0.08km     |
| 18 600 m | 18.6km     |
| 8m       | 0.008km    |



# Comparing and Ordering



Use  $<$ ,  $>$  or  $=$  to compare the measurements.

5km

3750 m



# Comparing and Ordering

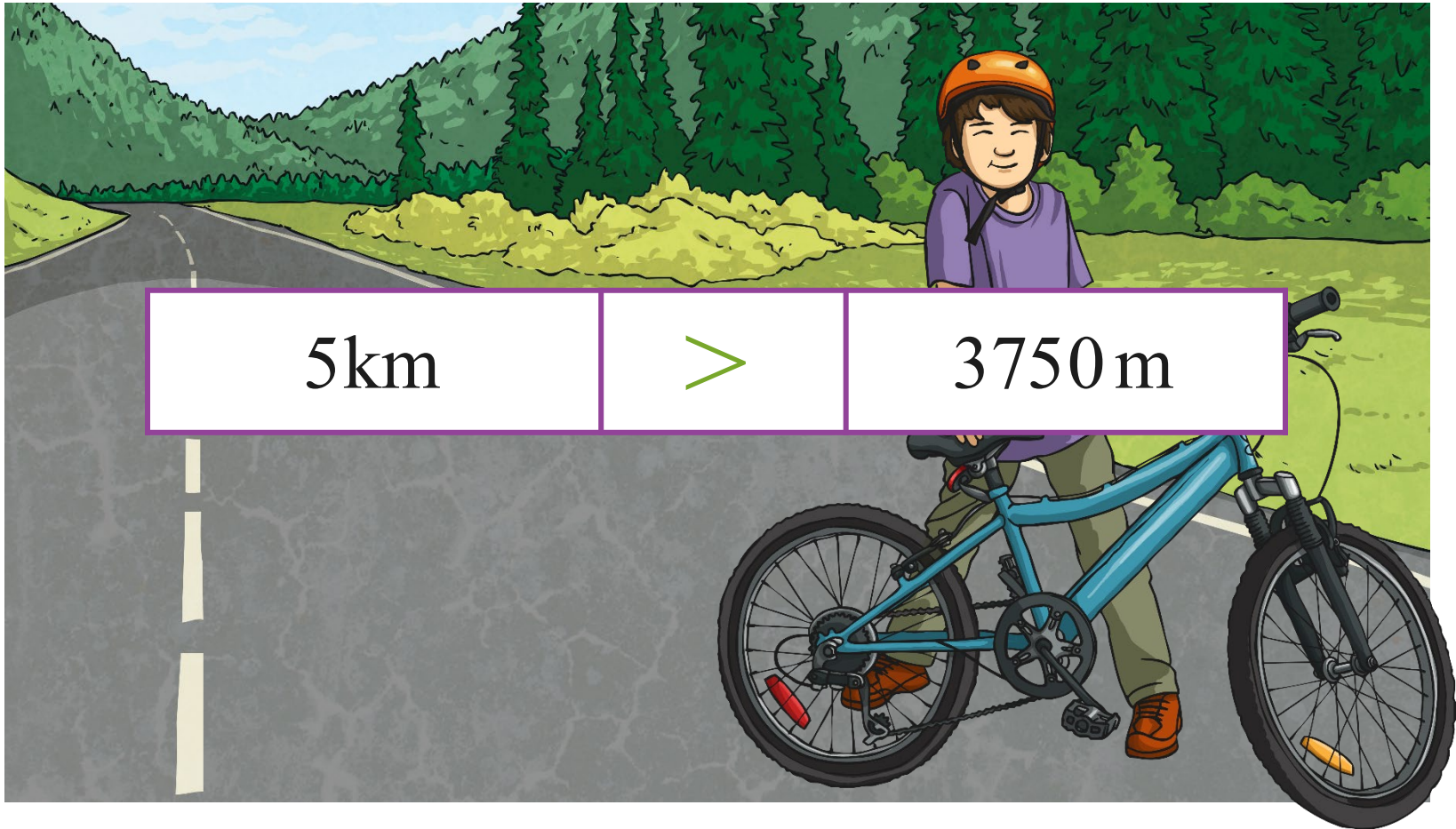


Use  $<$ ,  $>$  or  $=$  to compare the measurements.

5km

$>$

3750 m





# Comparing and Ordering



Use  $<$ ,  $>$  or  $=$  to compare the measurements.

300 m

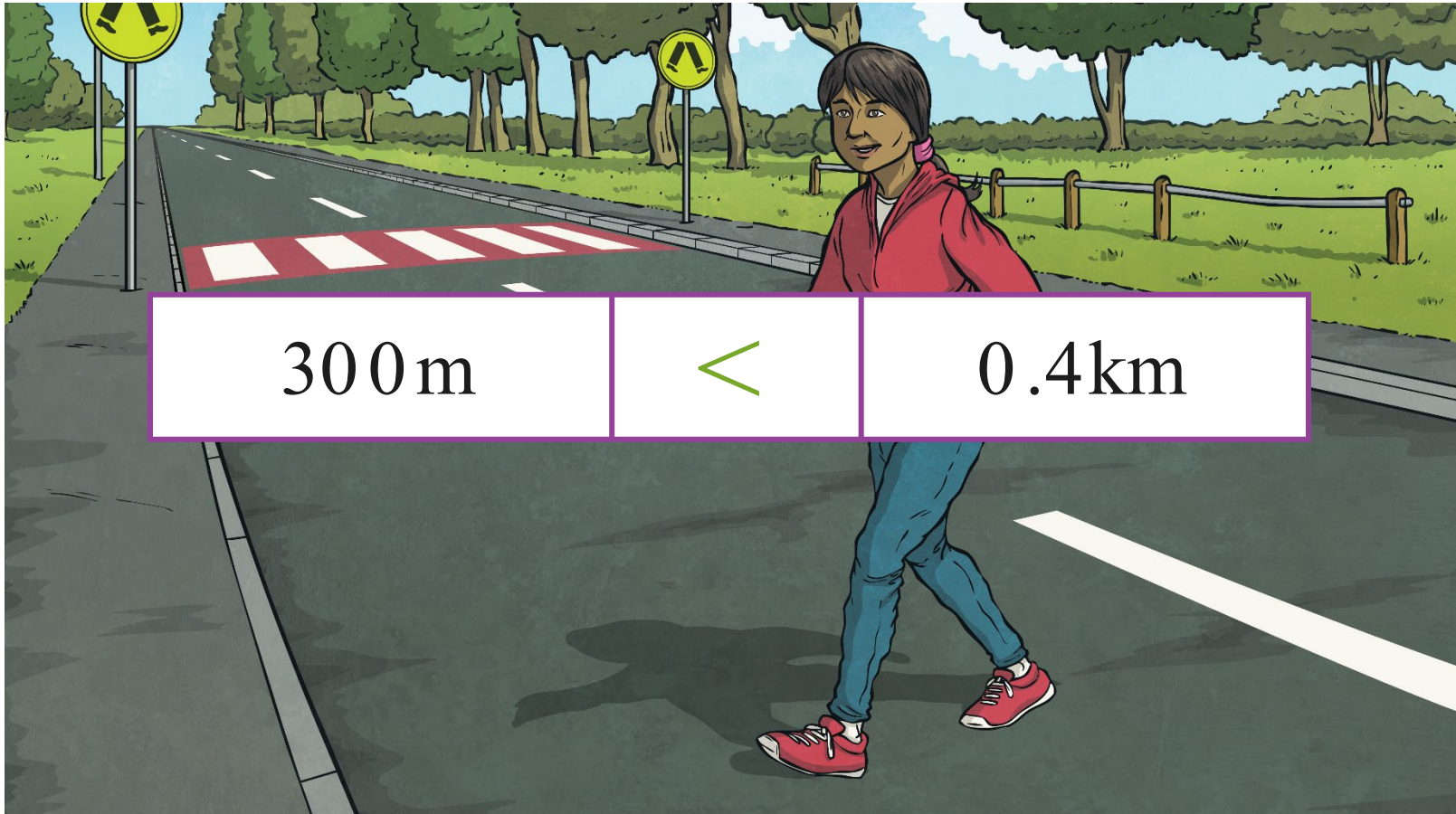
0.4 km



# Comparing and Ordering



Use  $<$ ,  $>$  or  $=$  to compare the measurements.



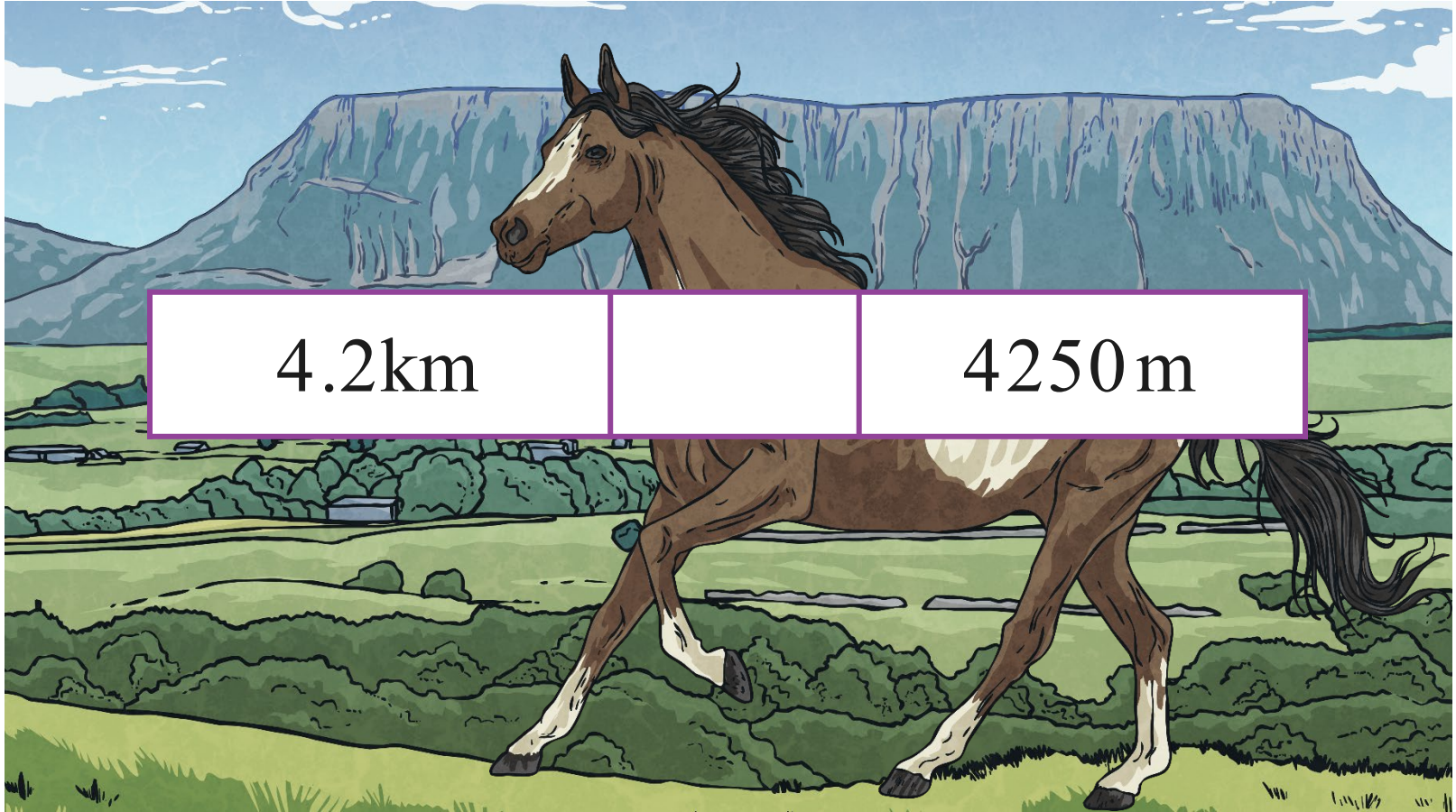
# Comparing and Ordering



Use  $<$ ,  $>$  or  $=$  to compare the measurements.

4.2km

4250 m





# Comparing and Ordering

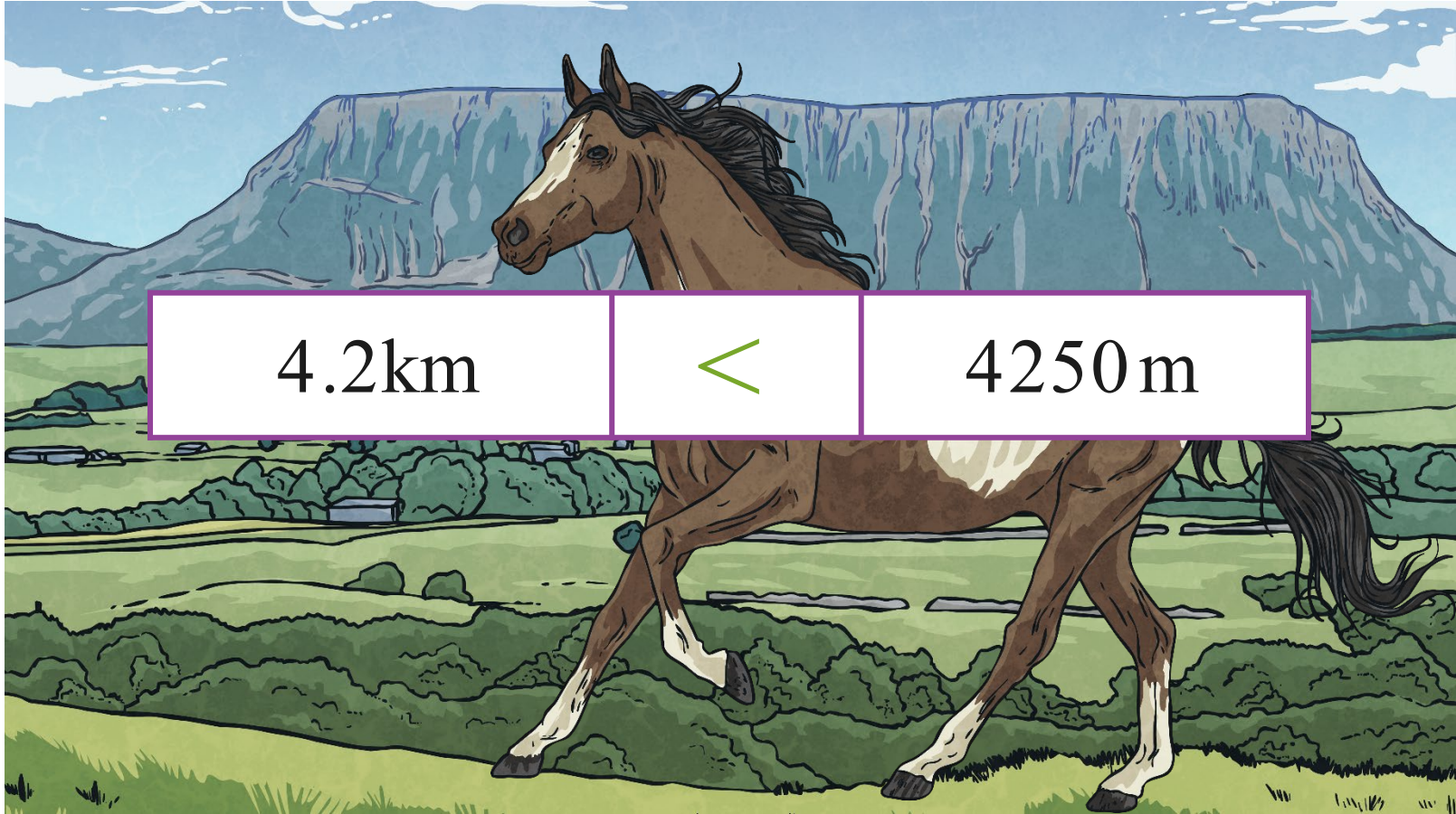


Use  $<$ ,  $>$  or  $=$  to compare the measurements.

4.2km

$<$

4250 m





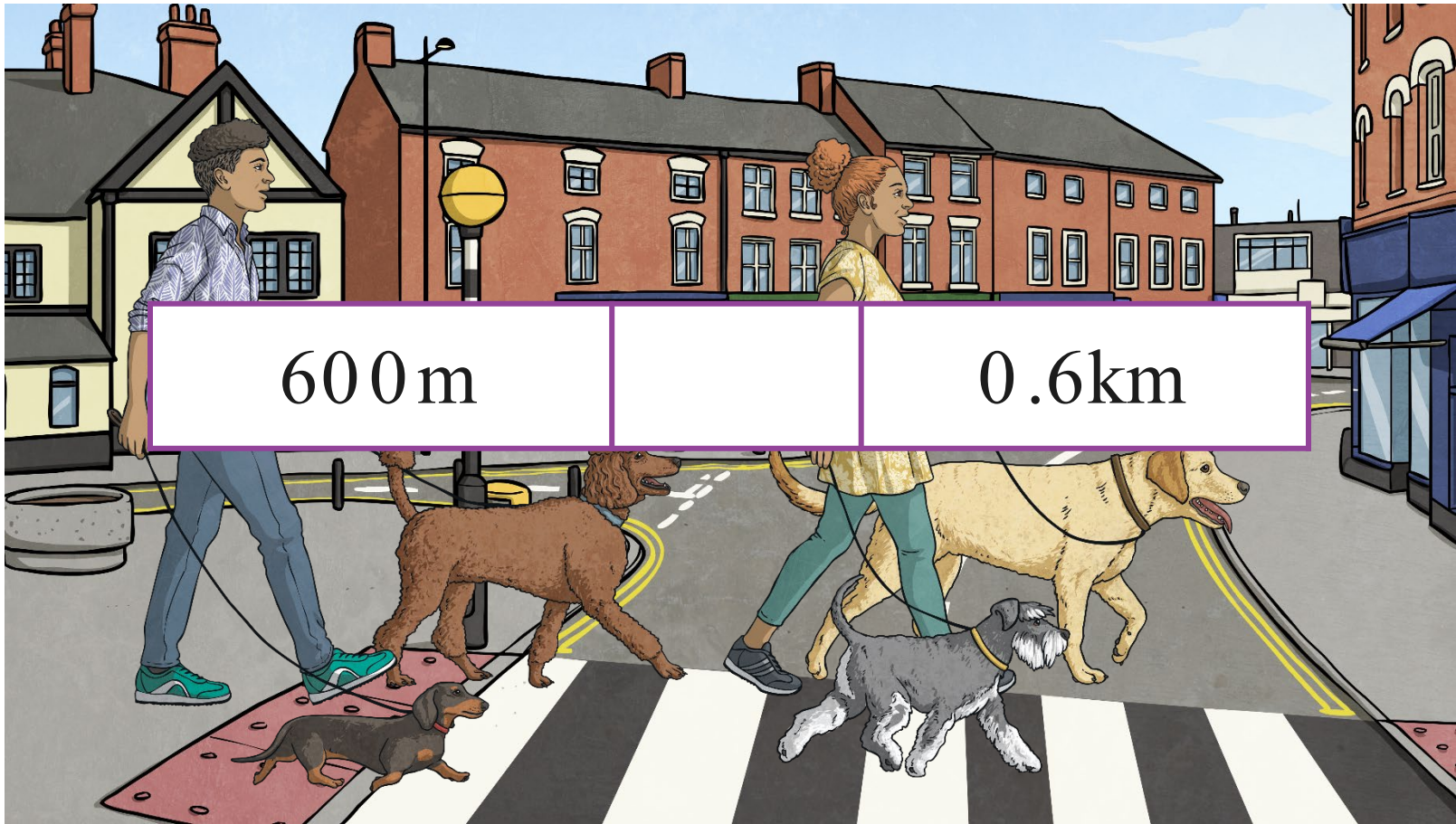
# Comparing and Ordering



Use  $<$ ,  $>$  or  $=$  to compare the measurements.

600 m

0.6 km



# Comparing and Ordering

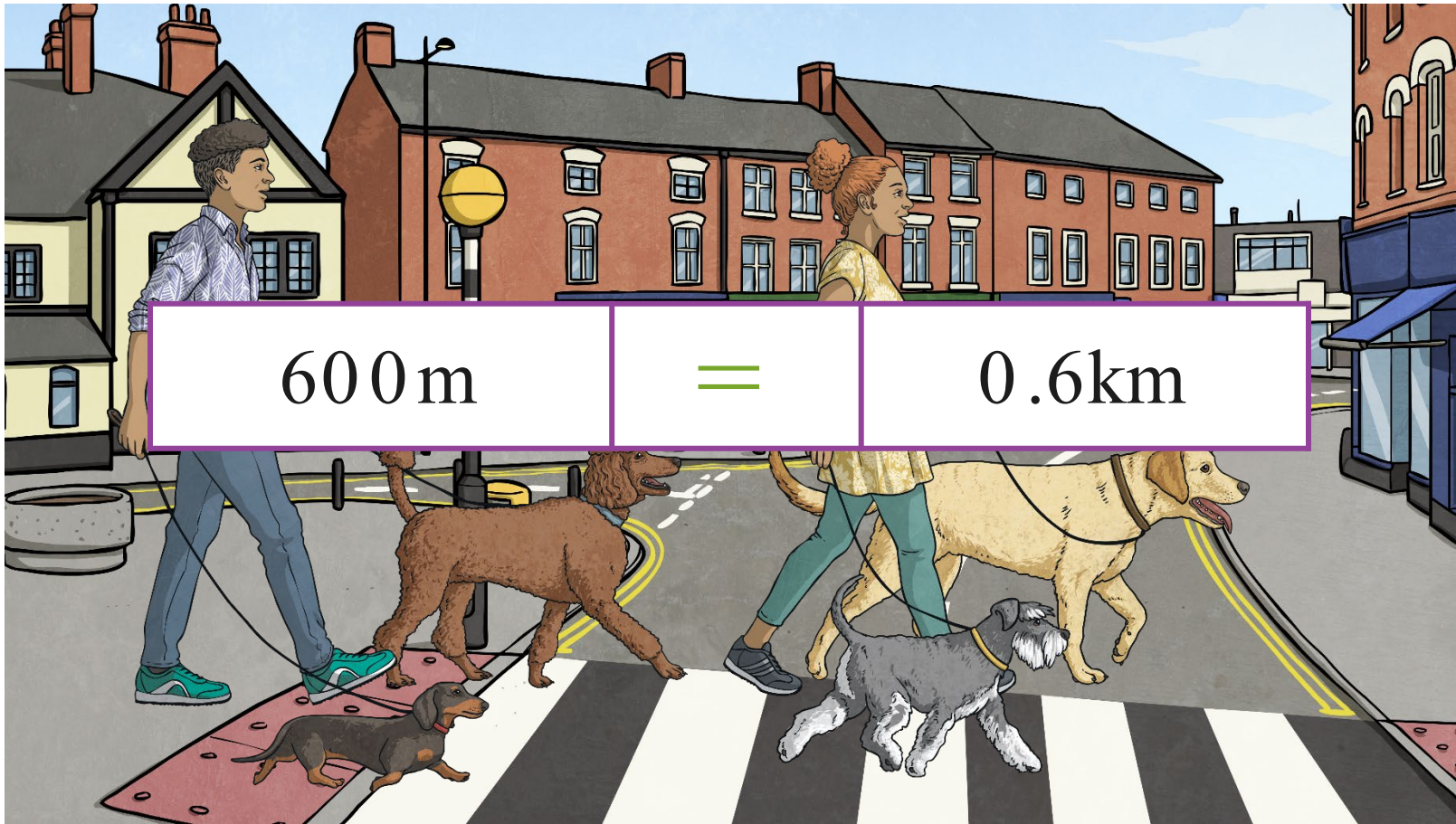


Use  $<$ ,  $>$  or  $=$  to compare the measurements.

600 m

=

0.6 km





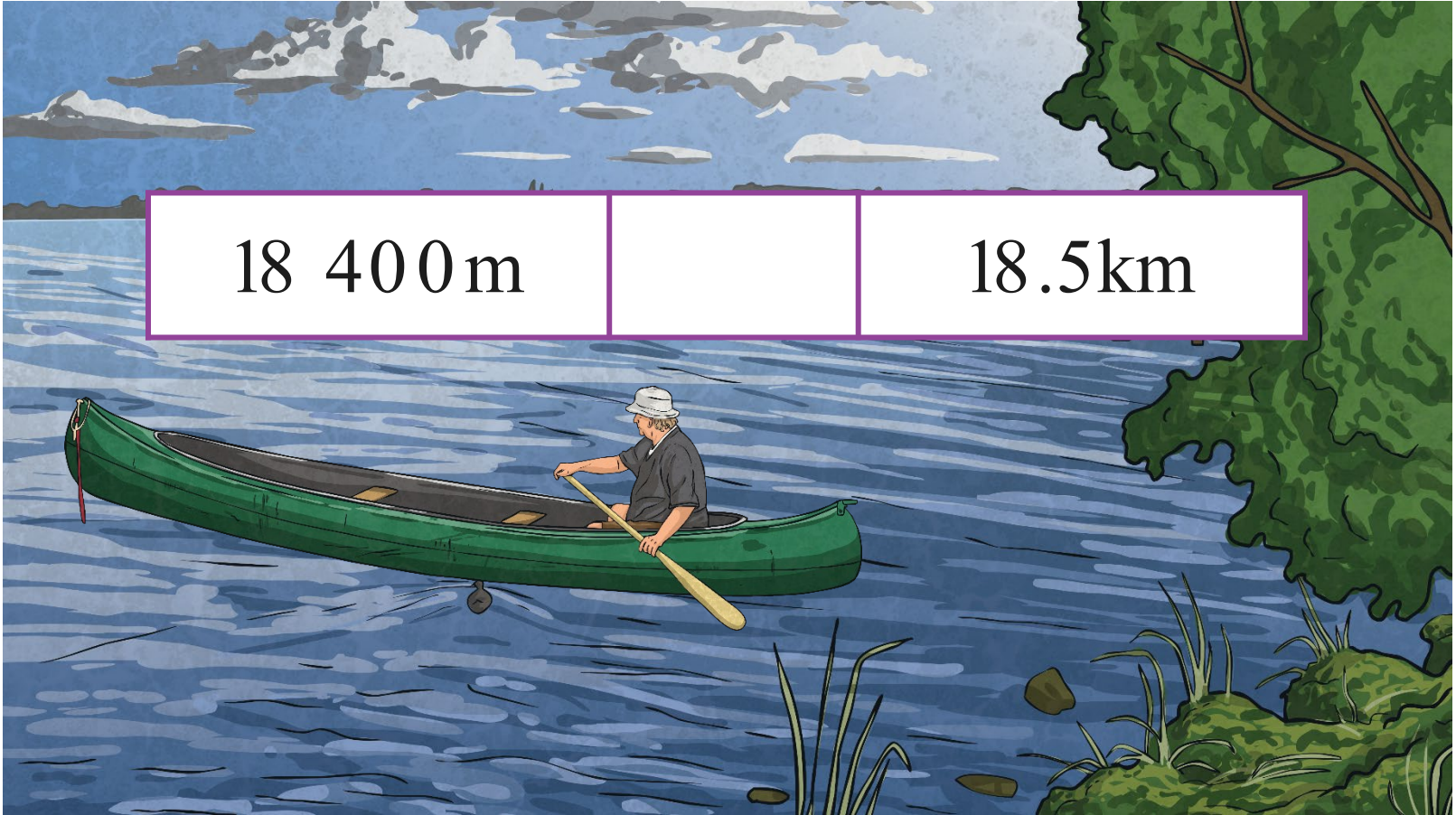
# Comparing and Ordering



Use  $<$ ,  $>$  or  $=$  to compare the measurements.

18 400 m

18.5 km





# Comparing and Ordering

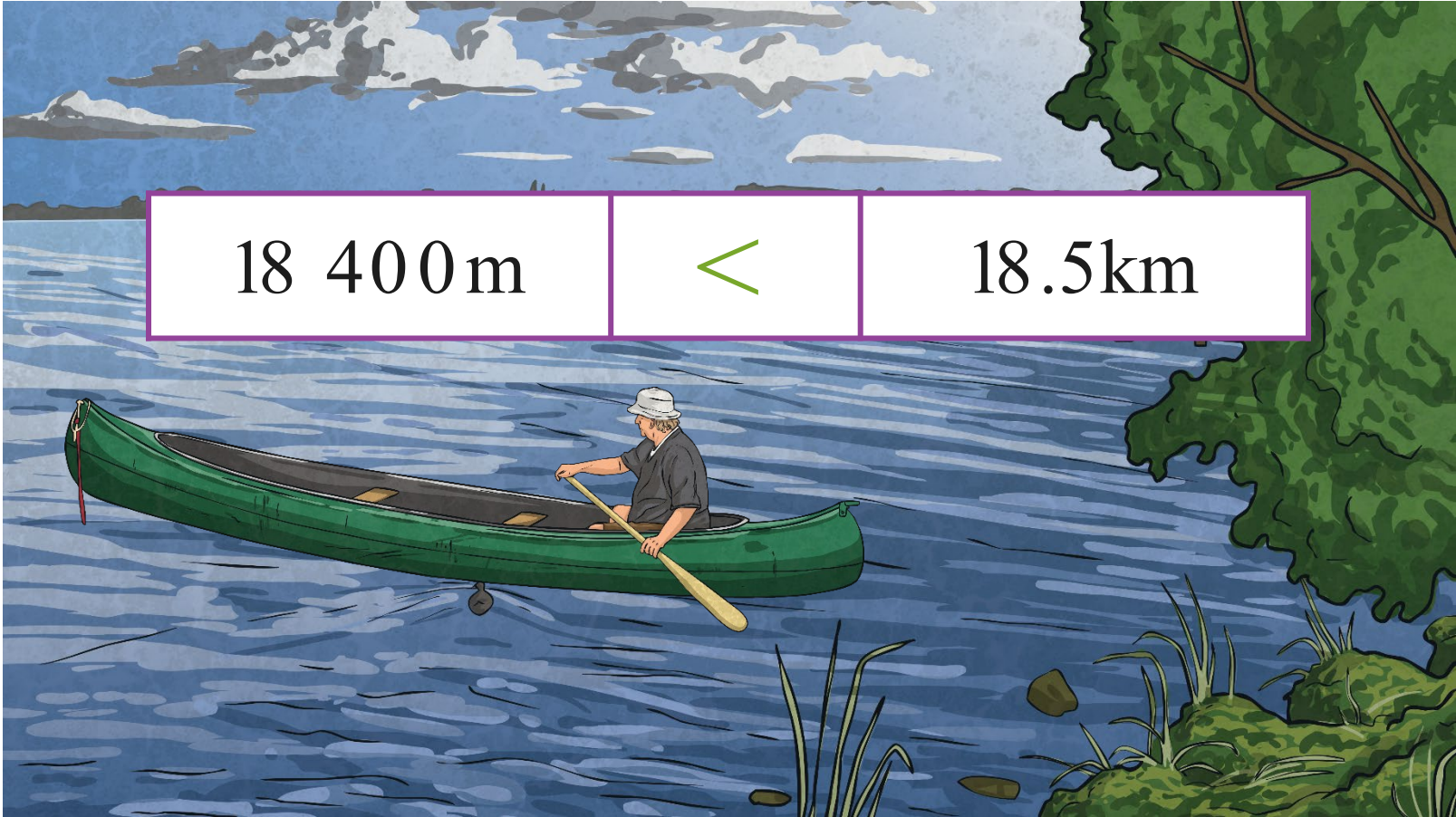


Use  $<$ ,  $>$  or  $=$  to compare the measurements.

18 400 m

$<$

18.5 km



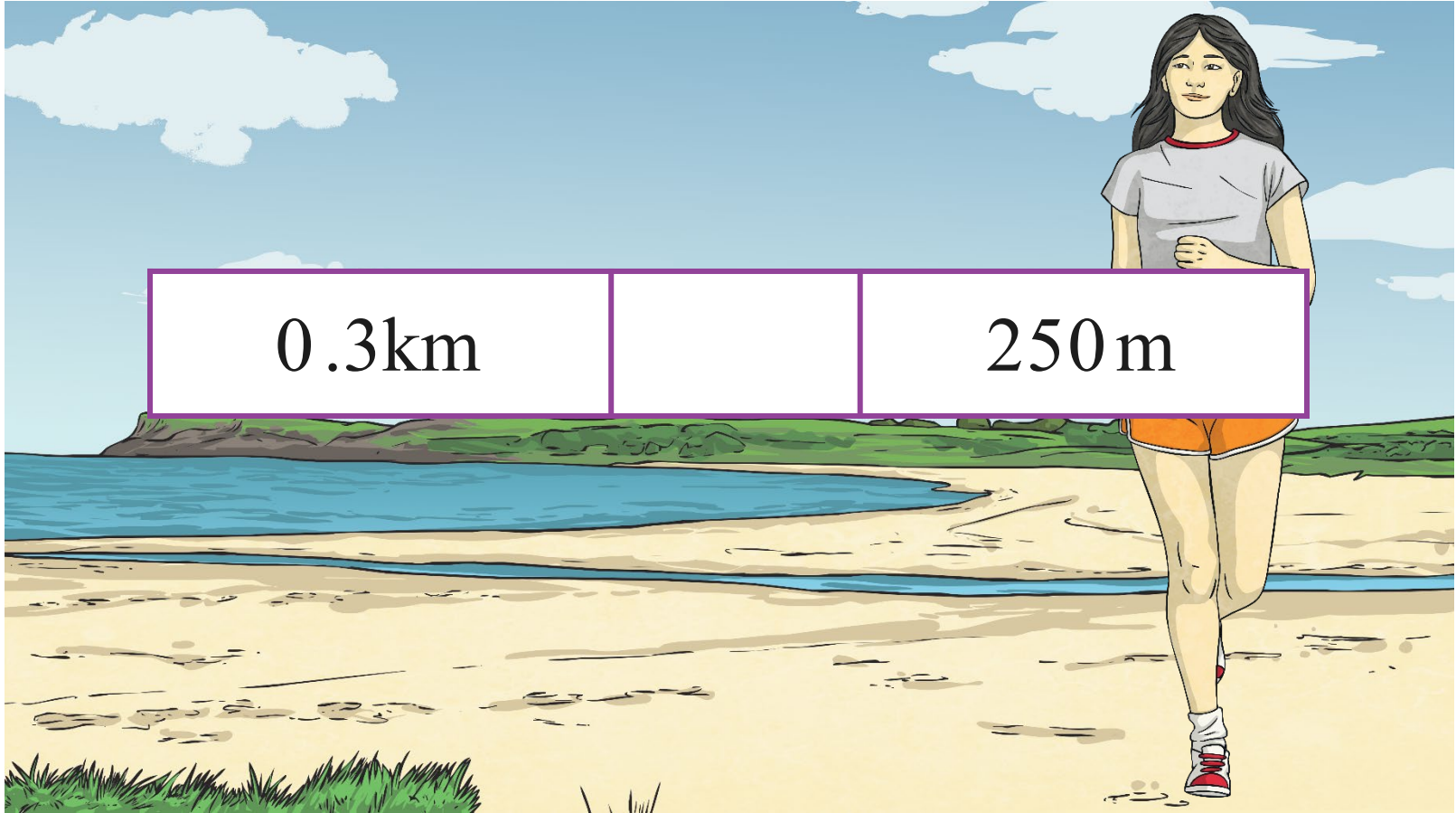
# Comparing and Ordering



Use  $<$ ,  $>$  or  $=$  to compare the measurements.

0.3km

250 m





# Comparing and Ordering

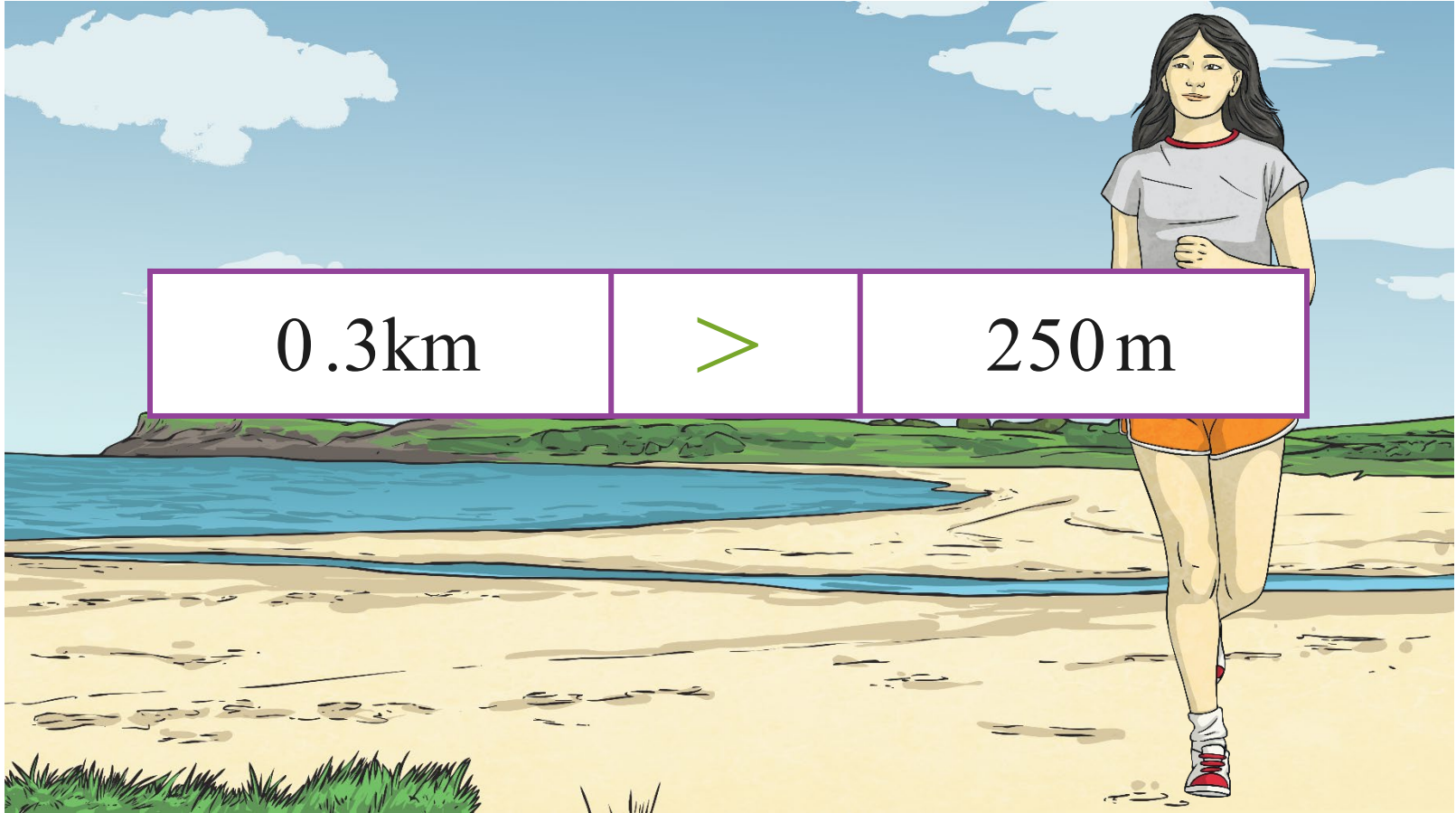


Use  $<$ ,  $>$  or  $=$  to compare the measurements.

0.3km

$>$

250 m





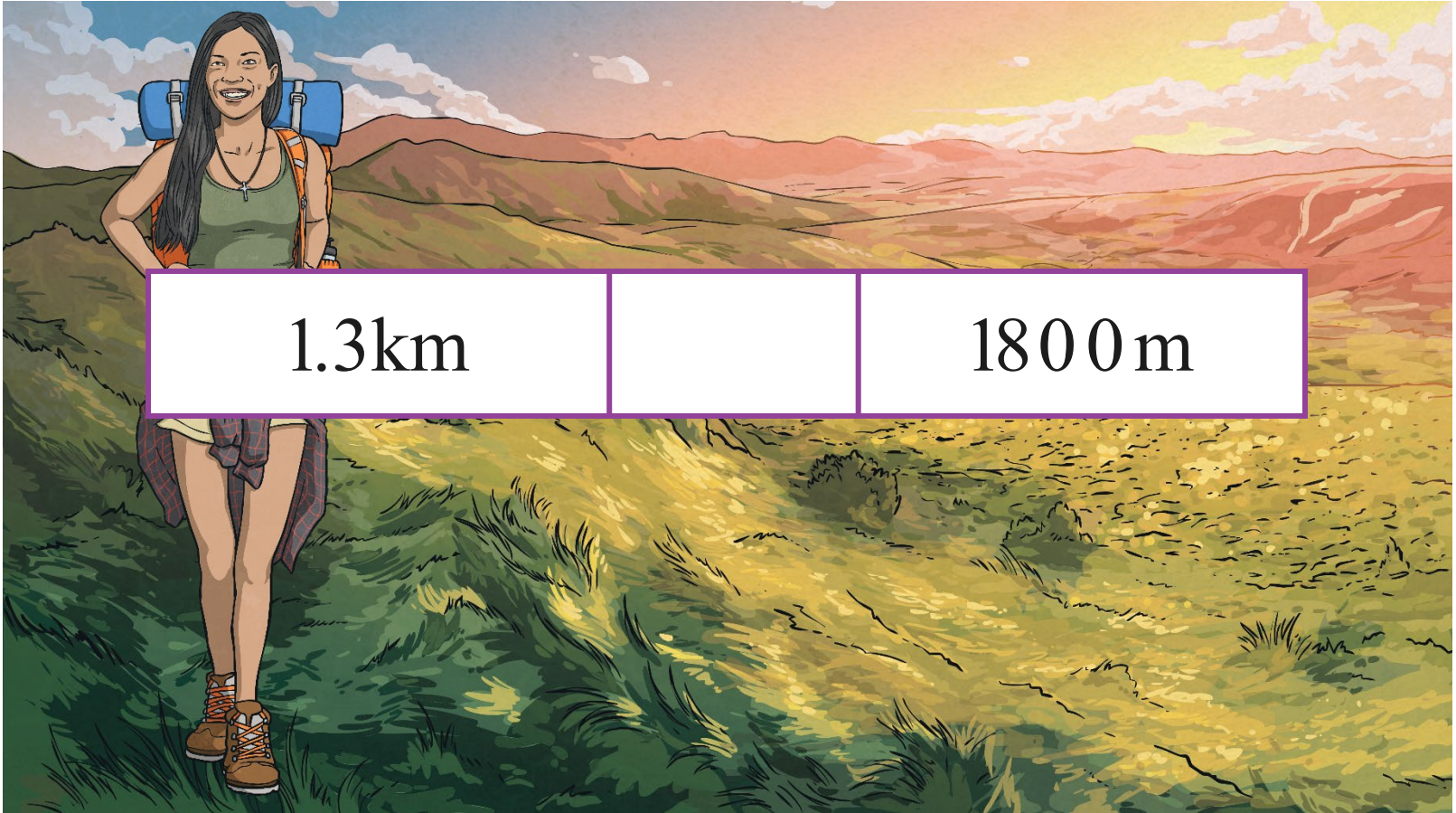
# Comparing and Ordering



Use  $<$ ,  $>$  or  $=$  to compare the measurements.

1.3km

1800 m





# Comparing and Ordering

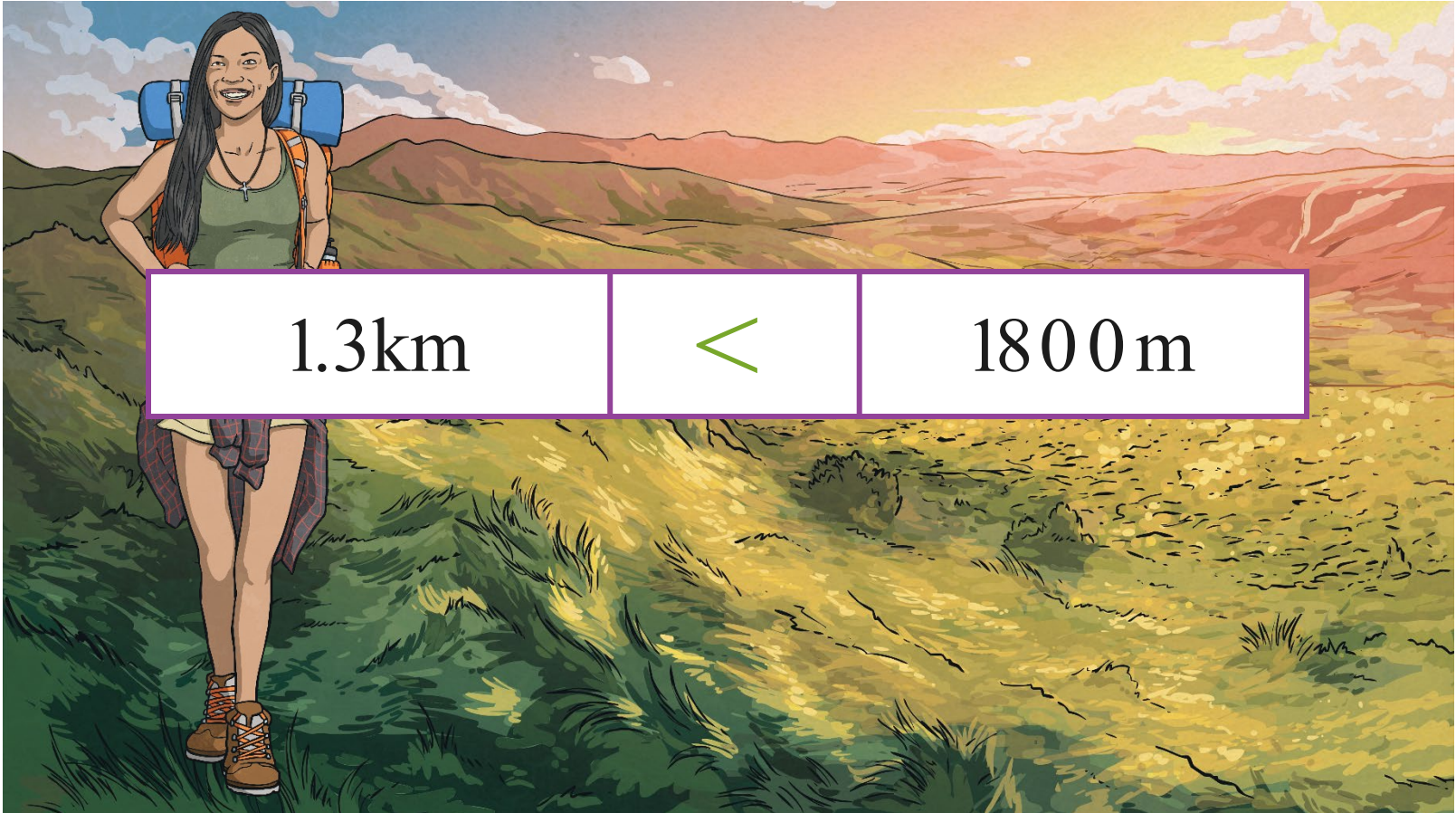


Use  $<$ ,  $>$  or  $=$  to compare the measurements.

1.3km

$<$

1800 m





# Make It Up or Down



You will be shown one measurement written in metres. Subtract to make it to the second measurement written in kilometres. Write the answer in metres.

