

# Wildlife Explorer

A large black and red parrot, possibly a Red-winged Blackbird, is shown in flight over a river and a lush green forest. The parrot has black feathers with red and white checkered patterns on its wings and tail. It is flying towards the right, with its wings spread wide. The background features a winding river and dense green foliage.

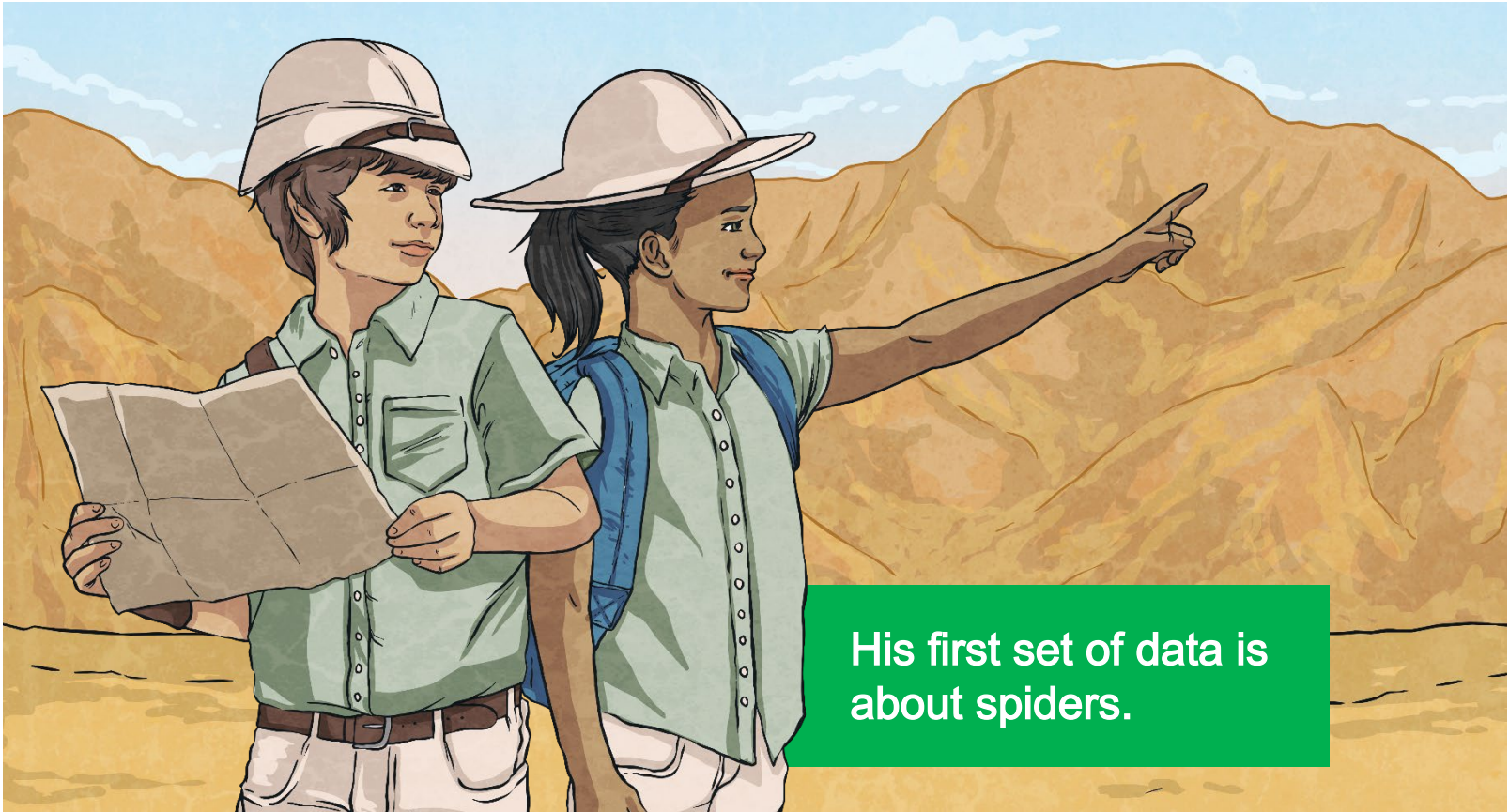
twinkl



# Spider Sizes



Sami is a wildlife explorer who has been collecting data about animals.



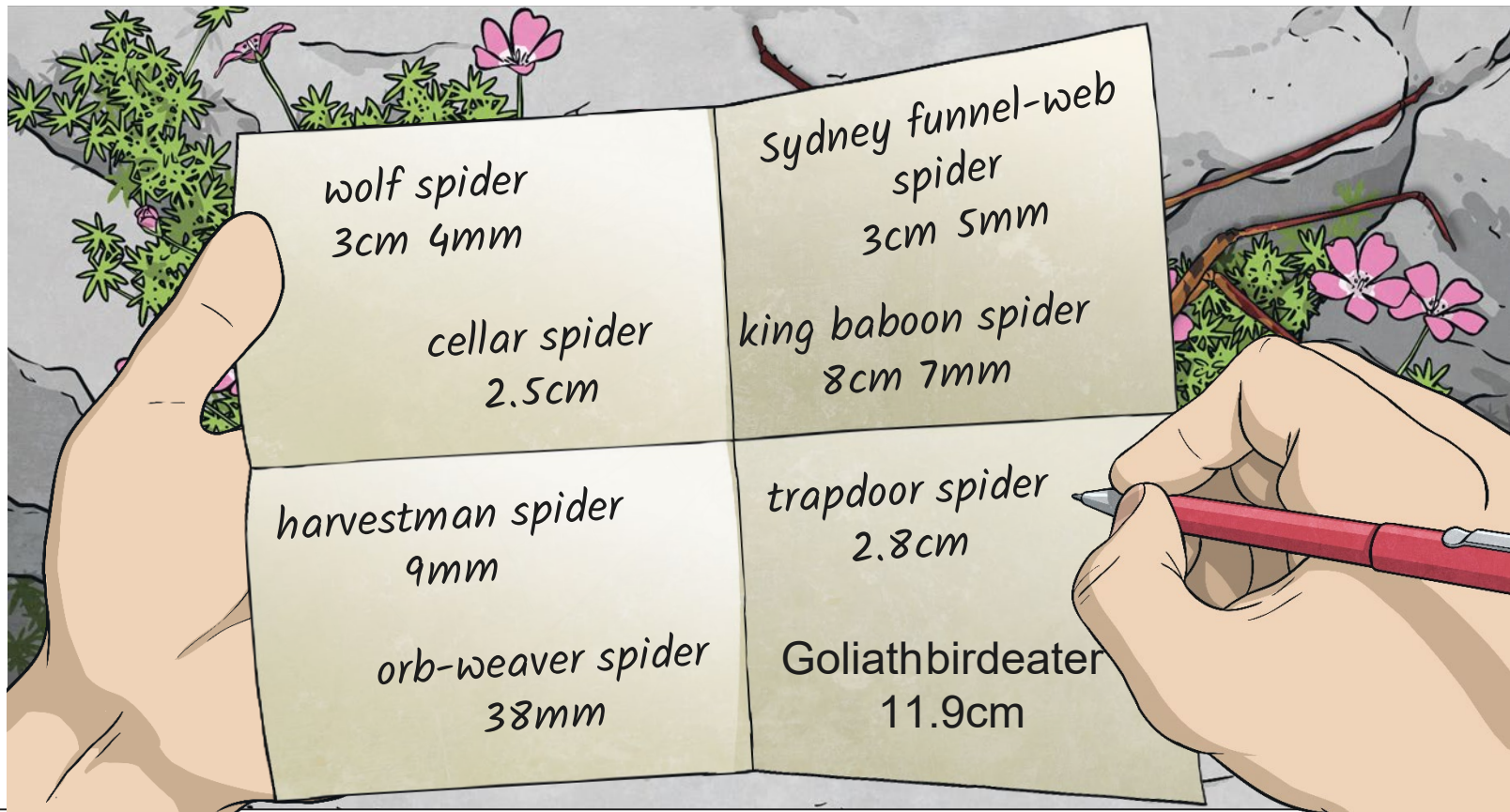
His first set of data is about spiders.



# Spider Sizes



There are more than 40 000 different species of spider in the world.  
They are found in every continent except Antarctica.



Here are the average lengths of the bodies of some different species of spider:

# Spider Sizes

It is easier to compare measurements when they are all written in the same unit.



To do this, we could convert the measurements given in centimetres to millimetres.

How many millimetres are in one centimetre?

$$1\text{cm} = 10\text{mm}$$

How do we convert centimetres to millimetres?

**We multiply by 10.**

To multiply by 10, each digit moves one place to the left:

hundreds	tens	ones	tenths
		8	7

$$8.7\text{cm} = 87\text{mm}$$



# Spider Sizes



What would 6.3cm be in millimetres?

How many millimetres are  
in one centimetre?

$$1\text{cm} = 10\text{mm}$$

How do we convert  
centimetres to millimetres?

**We multiply by 10.**

To multiply by 10,  
each digit moves one  
place to the left:

hundreds	tens	ones	tenths
		6	3

$$6.3\text{cm} = 63\text{mm}$$

# Spider Sizes



What would 8.9cm be in millimetres?

How many millimetres are  
in one centimetre?

$$1\text{cm} = 10\text{mm}$$

How do we convert  
centimetres to millimetres?

**We multiply by 10.**

To multiply by 10,  
each digit moves one  
place to the left:

hundreds	tens	ones	tenths
		8	9

$$8.9\text{cm} = 89\text{mm}$$



# Spider Sizes



What would 11.6cm be in millimetres?

How many millimetres are  
in one centimetre?

$$1\text{cm} = 10\text{mm}$$

How do we convert  
centimetres to millimetres?

**We multiply by 10.**

To multiply by 10,  
each digit moves one  
place to the left:

hundreds	tens	ones	tenths
	1	1	9

$$11.9\text{cm} = 119\text{mm}$$

# Spider Sizes



What would 10.1cm be in millimetres?

How many millimetres are  
in one centimetre?

$$1\text{cm} = 10\text{mm}$$

How do we convert  
centimetres to millimetres?

**We multiply by 10.**

To multiply by 10,  
each digit moves one  
place to the left:

hundreds	tens	ones	tenths
	1	0	1

$$10.1\text{cm} = 101\text{mm}$$



# Spider Sizes



Convert these measurements from centimetres to millimetres.

Centimetres	Millimetres
6.8cm	68mm
5.1cm	51mm
4.2cm	42mm

There are 10mm in 1cm.  
So, for every 10mm in a  
measurement, you can  
count 1cm. For example,  
how many centimetres are  
there in 84mm?

**8cm**

What do we do with the 4mm that are left over?  
There aren't enough to make a whole centimetre.  
We write them as millimetres on their own.





# Spider Sizes



Convert these measurements from centimetres to millimetres.

Centimetres	Millimetres	Centimetres and Millimetres
6.8cm	68mm	6cm 8mm
5.1cm	51mm	5cm 1mm
4.2cm	42mm	4cm 2mm



Fill in the last column in the table.



# Spider Sizes



We could also convert the measurements that were given in millimetres into centimetres.

How many millimetres are in one centimetre?

$$1\text{cm} = 10\text{mm}$$

How do we convert millimetres to centimetres?

**We divide by 10.**

To divide by 10, each digit moves one place to the right:

hundreds	tens	ones	tenths
	5	3	•



# Spider Sizes



What would 15mm be in cm?

How many millimetres are  
in one centimetre?

$$1\text{cm} = 10\text{mm}$$

How do we convert  
millimetres to centimetres?

**We divide by 10.**

To divide by 10,  
each digit moves one  
place to the right:

hundreds	tens	ones	tenths
	1	5	•

$$15\text{mm} = 1.5\text{cm}$$

# Spider Sizes

What would 85mm be in cm?



How many millimetres are  
in one centimetre?

$$1\text{cm} = 10\text{mm}$$

How do we convert  
millimetres to centimetres?

**We divide by 10.**

To divide by 10,  
each digit moves one  
place to the right:

hundreds	tens	ones	tenths
	8	5	•

$$85\text{mm} = 8.5\text{cm}$$



# Spider Sizes

What would 78mm be in cm?



How many millimetres are  
in one centimetre?

$$1\text{cm} = 10\text{mm}$$

How do we convert  
millimetres to centimetres?

**We divide by 10.**

To divide by 10,  
each digit moves one  
place to the right:

hundreds	tens	ones	tenths
	7	8	.

$$78\text{mm} = 7.8\text{cm}$$

# Spider Sizes



What would 112mm be in cm?

How many millimetres are  
in one centimetre?

$$1\text{cm} = 10\text{mm}$$

How do we convert  
millimetres to centimetres?

**We divide by 10.**

To divide by 10,  
each digit moves one  
place to the right:

hundreds	tens	ones	tenths
1	1	2	•

$$112\text{mm} = 11.2\text{cm}$$



# Spider Sizes



What would 103mm be in cm?

How many millimetres are  
in one centimetre?

$$1\text{cm} = 10\text{mm}$$

How do we convert  
millimetres to centimetres?

**We divide by 10.**

To divide by 10,  
each digit moves one  
place to the right:

hundreds	tens	ones	tenths
1	0	3	•

$$103\text{mm} = 10.3\text{cm}$$

# Spider Size Table



Use what you have learned to fill in the gaps in the [Spider Size Table](#).

Average Body Lengths of Spiders			
Spider	Centimetres	Millimetres	cm and mm
king baboon spider	8.7cm	87mm	8cm 7mm
Sydney funnel-web spider			3cm 5mm
trapdoor spider	2.8cm		
harvestman spider		9mm	
cellar spider	2.5cm		
wolf spider			3cm 4mm
orb-weaver spider		38mm	
Goliath birdeater	11.9cm		



# Spider Size Table



Use what you have learned to fill in the gaps in the [Spider Size Table](#).

Average Body Lengths of Spiders			
Spider	Centimetres	Millimetres	cm and mm
king baboon spider	8.7cm	87mm	8cm 7mm
Sydney funnel-web spider	3.5cm	35mm	3cm 5mm
trapdoor spider	2.8cm	28mm	2cm 8mm
harvestman spider	0.9cm	9mm	0cm 9mm
cellar spider	2.5cm	25mm	2cm 5mm
wolf spider	3.4cm	34mm	3cm 4mm
orb-weaver spider	3.8cm	38mm	3cm 8mm
Goliath birdeater	11.9cm	119mm	11cm 9mm

# Spider Size Table



Compare the average body lengths of the spiders using  $<$  or  $>$ :

Table

## Average Body Lengths of Spiders

Spider	Centimetres	Millimetres	cm and mm
king baboon spider	8.7cm	87mm	8cm 7mm
Sydney funnel-web spider	3.5cm	35mm	3cm 5mm
trapdoor spider	2.8cm	28mm	2cm 8mm
harvestman spider	0.9cm	9mm	0cm 9mm
cellar spider	2.5cm	25mm	2cm 5mm
wolf spider	3.4cm	34mm	3cm 4mm
orb-weaver spider	3.8cm	38mm	3cm 8mm
Goliath birdeater	11.9cm	119mm	11cm 9mm

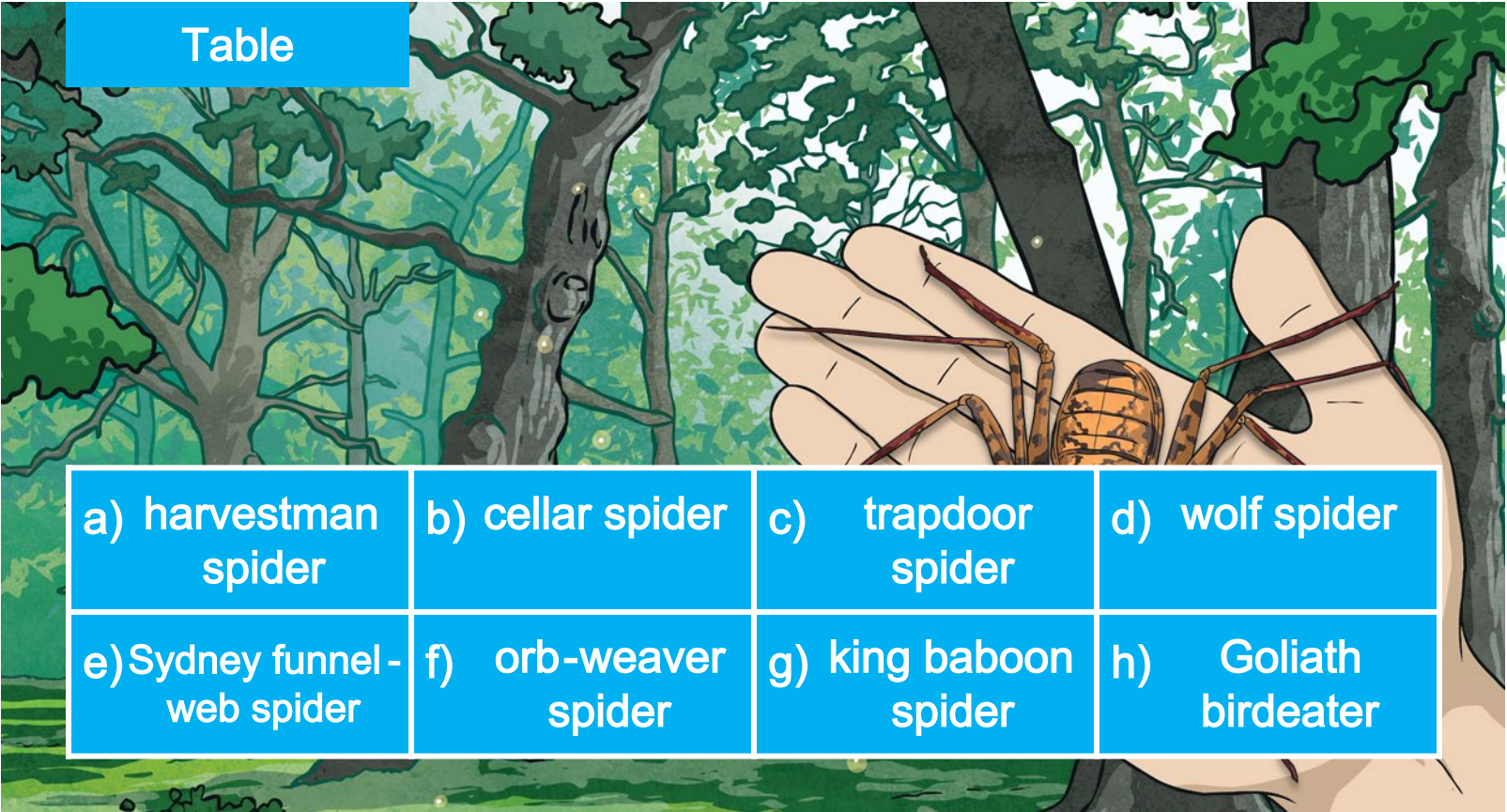


# Spider Size Table



Order the spiders from shortest to longest:

Table



a) harvestman spider	b) cellar spider	c) trapdoor spider	d) wolf spider
e) Sydney funnel-web spider	f) orb-weaver spider	g) king baboon spider	h) Goliath birdeater



# Snake Sizes



After he had completed his project on spiders,  
Sami decided to study snakes.



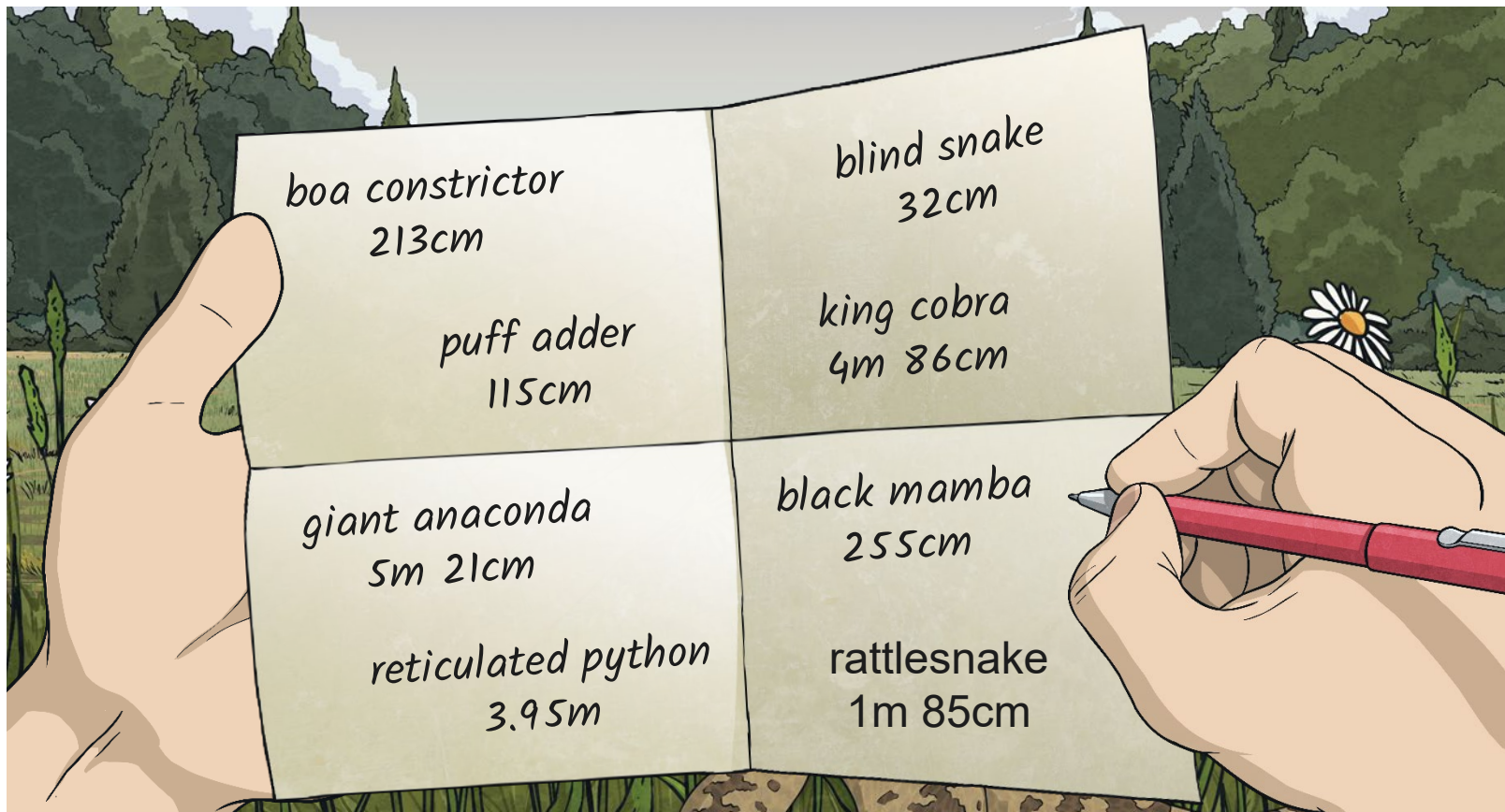
He collected data about  
some of the world's shortest  
and longest snakes.



# Snake Sizes



There are more than 3000 species of snake in the world.  
Here are the average lengths of some different snake species:



# Snake Sizes



Remember, when comparing or ordering measurements, it is better to ensure that all measurements are written in the same unit.

How many centimetres are  
in one metre?

$$1\text{m} = 100\text{cm}$$

How do we convert  
metres to centimetres?

**We multiply by 100.**

To multiply by 100,  
each digit moves two  
places to the left:

hundreds	tens	ones	tenths
		8	7

$$8.7\text{m} = 870\text{cm}$$



# Snake Sizes



What would 2.6m be in cm?

How many centimetres are  
in one metre?

$$1\text{m} = 100\text{cm}$$

How do we convert  
metres to centimetres?

**We multiply by 100.**

To multiply by 100,  
each digit moves two  
places to the left:

hundreds	tens	ones	tenths
		2	6

$$2.6\text{m} = 260\text{cm}$$

# Snake Sizes



What would 9.1m be in cm?

How many centimetres are  
in one metre?

$$1\text{m} = 100\text{cm}$$

How do we convert  
metres to centimetres?

**We multiply by 100.**

To multiply by 100,  
each digit moves two  
places to the left:

hundreds	tens	ones	tenths
		9	1

$$9.1\text{m} = 910\text{cm}$$



# Snake Sizes



What would 6.3m be in cm?

How many centimetres are  
in one metre?

$$1\text{m} = 100\text{cm}$$

How do we convert  
metres to centimetres?

**We multiply by 100.**

To multiply by 100,  
each digit moves two  
places to the left:

hundreds	tens	ones	tenths
		6	3

$$6.3\text{m} = 630\text{cm}$$

# Snake Sizes



Convert these measurements from metres to centimetres.

Metres	Centimetres
2.32m	232cm
5.59m	559cm
10.85m	1085cm

There are 100cm in 1m.  
So, for every 100cm in a  
measurement, you can  
count 1m. For example,  
how many metres are  
there in 645cm?

**6m**

What do we do with the 45cm that are left over?  
There aren't enough to make a whole metre.  
We write them as centimetres on their own.



**645cm =  
6m 45cm**



# Snake Sizes



Convert these measurements from metres to centimetres.

Metres	Centimetres	Metres and Centimetres
2.32m	232cm	2m 32cm
5.59m	559cm	5m 59cm
10.85m	1085cm	10m 85cm



Fill in the last column in the table.

# Snake Sizes



Remember, when comparing or ordering measurements, it is better to ensure that all measurements are written in the same unit.

How many centimetres are in one metre?

$$1\text{m} = 100\text{cm}$$

How do we convert centimetres to metres?

**We divide by 100.**

To divide by 100, each digit moves two places to the right:

hundreds	tens	ones	tenths	hundredths
3	5	1	•	

$$351\text{cm} = 3.51\text{m}$$



# Snake Sizes



What would 256cm be in m?

How many centimetres are  
in one metre?

$$1\text{m} = 100\text{cm}$$

How do we convert  
centimetres to metres?

**We divide by 100.**

To divide by 100,  
each digit moves two  
places to the right:

hundreds	tens	ones	tenths	hundredths
2	5	6	•	

$$256\text{cm} = 2.56\text{m}$$

# Snake Sizes



What would 203cm be in m?

How many centimetres are  
in one metre?

$$1\text{m} = 100\text{cm}$$

How do we convert  
centimetres to metres?

**We divide by 100.**

To divide by 100,  
each digit moves two  
places to the right:

hundreds	tens	ones	tenths	hundredths
2	0	3	•	

$$203\text{cm} = 2.03\text{m}$$



# Snake Sizes

What would 23cm be in m?



How many centimetres are  
in one metre?

$$1\text{m} = 100\text{cm}$$

How do we convert  
centimetres to metres?

**We divide by 100.**

To divide by 100,  
each digit moves two  
places to the right:

hundreds	tens	ones	tenths	hundredths
	2	3	.	

$$23\text{cm} = 0.23\text{m}$$

# Snake Sizes



What would 68cm be in m?

How many centimetres are  
in one metre?

$$1\text{m} = 100\text{cm}$$

How do we convert  
centimetres to metres?

**We divide by 100.**

To divide by 100,  
each digit moves two  
places to the right:

hundreds	tens	ones	tenths	hundredths
	6	8	.	

$$68\text{cm} = 0.68\text{m}$$



# Snake Sizes



What would 9cm be in m?

How many centimetres are  
in one metre?

$$1\text{m} = 100\text{cm}$$

How do we convert  
centimetres to metres?

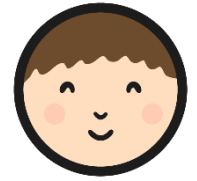
**We divide by 100.**

To divide by 100,  
each digit moves two  
places to the right:

hundreds	tens	ones	tenths	hundredths
		9	0	

$$9\text{cm} = 0.09\text{m}$$

# Snake Size Table

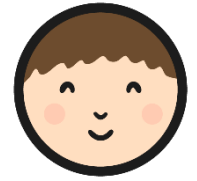


Use what you have learned to complete the [Snake Size Table](#)

Average Lengths of Snakes			
Snake	Metres	Centimetres	m and cm
giant anaconda	5.21m	521cm	5m 21cm
puff adder	1.15m	115cm	1m 15cm
boa constrictor	12.13m	1213cm	12m 13cm
rattlesnake	1.85m	185cm	1m 85cm
black mamba	2.55m	255cm	2m 55cm
king cobra	4.86m	486cm	4m 86cm
blind snake	0.32cm	32cm	0m 32cm
reticulated python	3.95m	395cm	3m 95cm



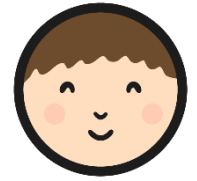
# Snake Size Table



Use what you have learned to complete the [Snake Size Table](#)

Average Lengths of Snakes			
Snake	Metres	Centimetres	m and cm
giant anaconda	5.21m	521cm	5m 21cm
puff adder			1m 15cm
boa constrictor		1213cm	
rattlesnake			1m 85cm
black mamba		255cm	
king cobra			4m 86cm
blind snake		32cm	
reticulated python	3.95m		

# Snake Size Table



The average length of a Nile crocodile is 4.25m.

Table

Average Lengths of Snakes

Snake	Metres	Centimetres	m and cm
giant anaconda	5.21m	521cm	5m 21cm
puff adder	1.15m	115cm	1m 15cm
boa constrictor	2.13m	213cm	2m 13cm
rattlesnake	1.85m	185cm	1m 85cm
black mamba	2.55m	255cm	2m 55cm
king cobra	4.86m	486cm	4m 86cm
blind snake	0.32m	32cm	0m 32cm
reticulated python	3.95m	395cm	3m 95cm



# Spiders and Snakes



Here are the average lengths of some spiders and snakes.  
Order them from shortest to longest.

reticulated  
python  
3.95m

puff adder  
115cm

king baboon  
spider  
8cm 7mm

blind snake  
32cm

orb-weaver  
spider  
38 mm

Goliath  
birdeater  
11.9cm

shortest



longest

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