

LO: I CAN MEASURE LENGTHS (IN METRES AND CENTIMETRES)

Page

Success Criteria

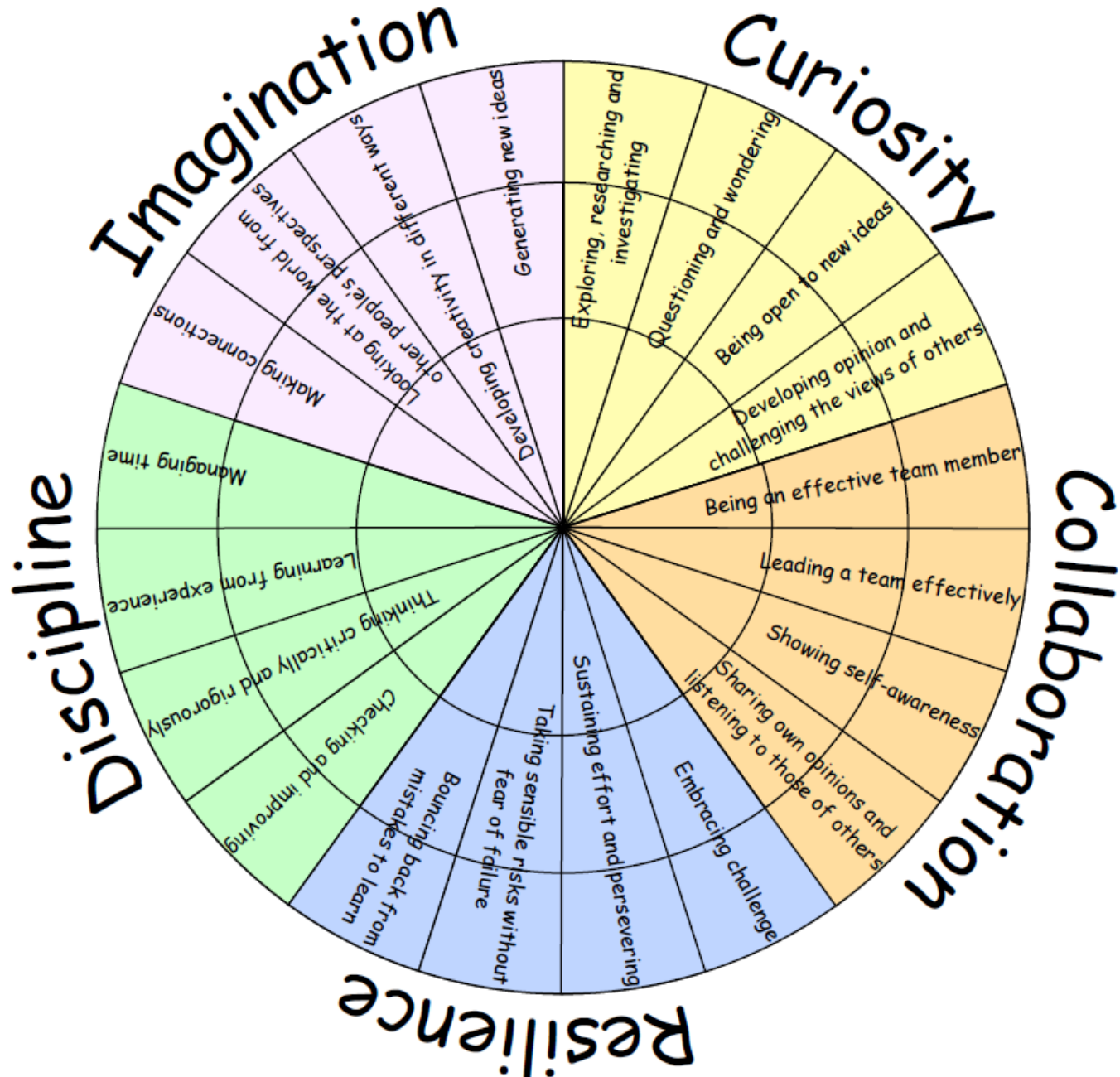
Some will even know equivalent measurements (convert cm and m).

Some will measure lengths beyond 2 metres.

Most will measure lengths beyond 1 metre.

All will estimate lengths and use a ruler to measure (up to 1 metre).

LEARNING HABITS?



MODELLED EXAMPLE

Measure the distance these paper aeroplanes travelled.



Bella's plane travelled past 1 metre, then 4 lots of 10.

Her plane travelled ___ m and ___ cm

This is equivalent to (the same) ___ cm

Zac's plane travelled past 2 metres, then 5 lots of 10.

His plane travelled ___ m and ___ cm

This is equivalent to ___ cm

Emma's plane travelled past 4 metres, then 3 lots of 10.

Her plane travelled ___ m and ___ cm

This is equivalent to ___ cm

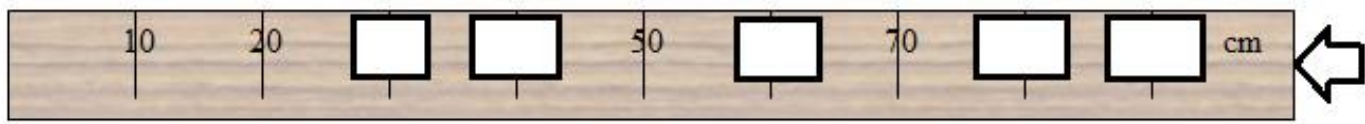
• One metre has 100 centimetres (cm). $1 \times 100 = 100$

• One metre has ten lots of 10 centimetres (cm). $10 \times 10 = 100$




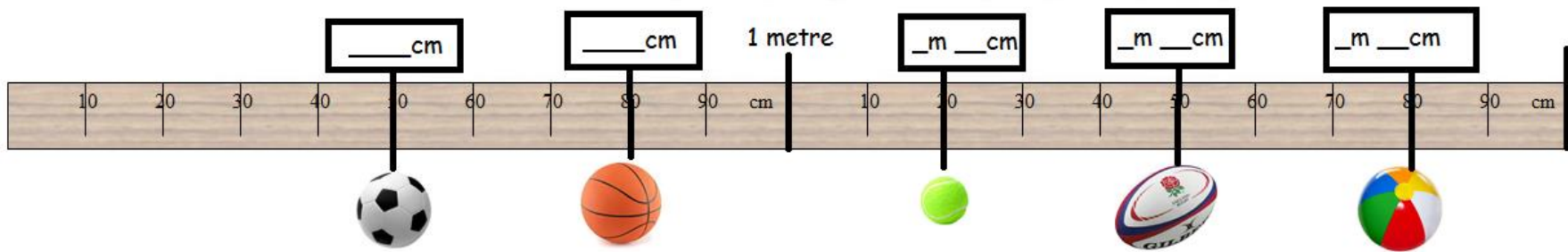
INTELLIGENT PRACTICE

Fill in the missing numbers on this metre stick. 



The end of the metre stick shows 1 m.
This is equivalent to _____ cm.

Here are two metre sticks. How far did each ball roll. Fill in the missing numbers. 



1m 36 cm is equivalent to 136 cm. 



- 2m 41cm is equivalent to _____ cm.
- 2m 89 cm is equivalent to _____ cm
- 3m 50 cm is equivalent to _____ cm
- 4m 32cm is equivalent to _____ cm
- 5m 5cm is equivalent to _____ cm

Draw three metre sticks in your maths book. 




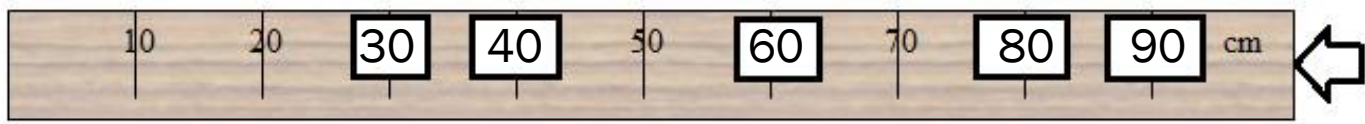
- Where would 2m 10cm be?
- Where would 250cm be?
- Where would 2 metres and 90 centimetres be?
- What other numbers can you plot?

3 BEFORE ME
100 cm is 1 metre




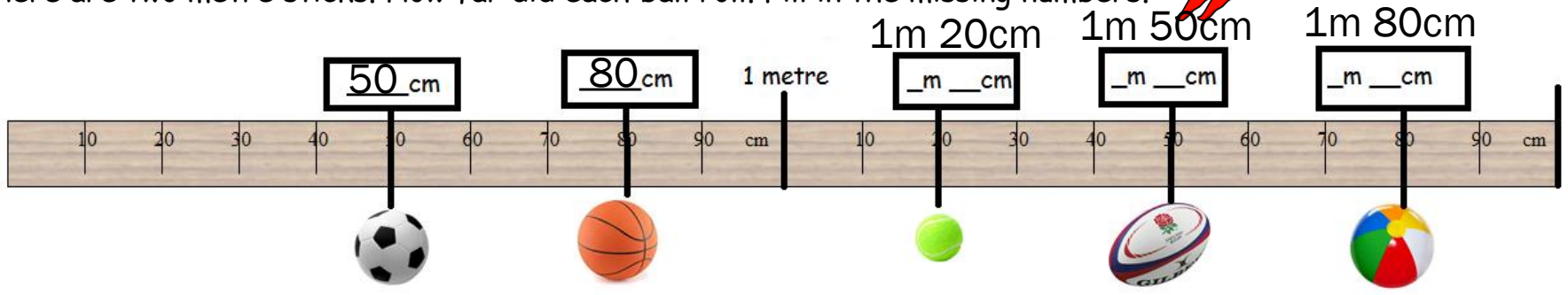
INTELLIGENT PRACTICE ANSWERS

Fill in the missing numbers on this metre stick. 



The end of the metre stick shows 1 m.
This is equivalent to **100** cm.

Here are two metre sticks. How far did each ball roll. Fill in the missing numbers. 



1m 36 cm is equivalent to 136 cm.



2m 41cm is equivalent to **241** cm.

2m 89 cm is equivalent to **289** cm

3m 50 cm is equivalent to **350** cm

4m 32cm is equivalent to **432** cm

5m 5cm is equivalent to **505** cm

Draw three metre sticks in your maths book.



Where would 2m 10cm be?

Where would 250cm be?

Where would 2 metres and 90 centimetres be?

What other numbers can you plot?

3 BEFORE ME
100 cm is 1 metre



DIVE DEEPER

1 Put these three distances into the correct box.

0m 70cm 1m 90cm 1m 50cm

2 Children measure lines outside.

My line was 1 metre and 25 centimetres long. This is equivalent to 125cm.

My line was 1 metre and 56 centimetres long. This is equivalent to ____ cm.

My line was 1 metre and 87 centimetres long. This is equivalent to ____ cm.

3 Compare these lengths using the symbols < > =

1m 31 cm 1m 19 cm 112cm 121cm

1m 55 cm 1m 91 cm 150cm 105cm

1m 73 cm 173cm 170cm 117cm

4 How tall is Ben?

Ben is ____ m ____ cm tall.

This is equivalent to ____ cm.

True or false?

- Ben is taller than 2m.
- Ben is shorter than 150cm.
- Ben's height is greater than 1m.
- The difference between Ben's height and 1m is 30cm.

DIVE DEEPER ANSWERS

1 Put these three distances into the correct box.

0m 70cm

1m 90cm

1m 50cm

2 Children measure lines outside.

My line was 1 metre and 25 centimetres long. This is equivalent to 125cm.

My line was 1 metre and 56 centimetres long. This is equivalent to 156 cm.

My line was 1 metre and 87 centimetres long. This is equivalent to 187 cm.

3 Compare these lengths using the symbols $<$ $>$ $=$

1m 31 cm		1m 19 cm		112cm		121cm
1m 55 cm		1m 91 cm		150cm		105cm
1m 73 cm		173cm		170cm		117cm

4 How tall is Ben?

Ben is 1 m 30 cm tall.

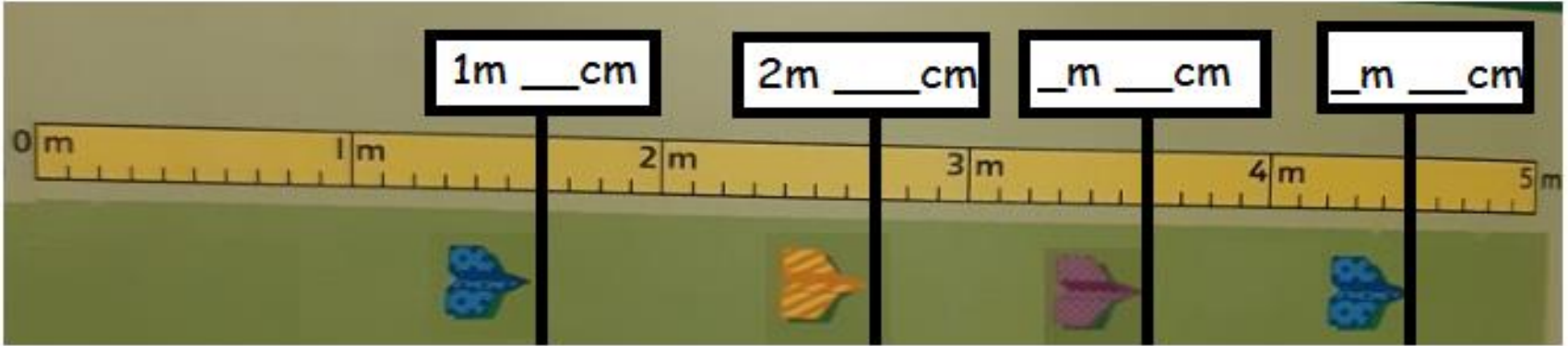
This is equivalent to 130 cm.

True or false?

- Ben is taller than 2m. **False**
- Ben is shorter than 150cm. **True**
- Ben's height is greater than 1m. **True**
- The difference between Ben's height and 1m is 30cm. **True**

DIVE DEEPER 2

5 What distance did these paper aeroplanes travel? Write the equivalents below too.



_____ cm _____ cm _____ cm _____ cm

6 Children measure lines outside.

My line is 3m 45 cm. This is equivalent to _____ cm.

My line is 4 metre and 02 centimetres long. This is equivalent to _____ cm.

My line was 5 metre and 100 centimetres long. This is equivalent to _____ cm.

7 Use a measuring tape to measure your height.

I am ___ m ___ cm. This is equivalent to ___ cm.

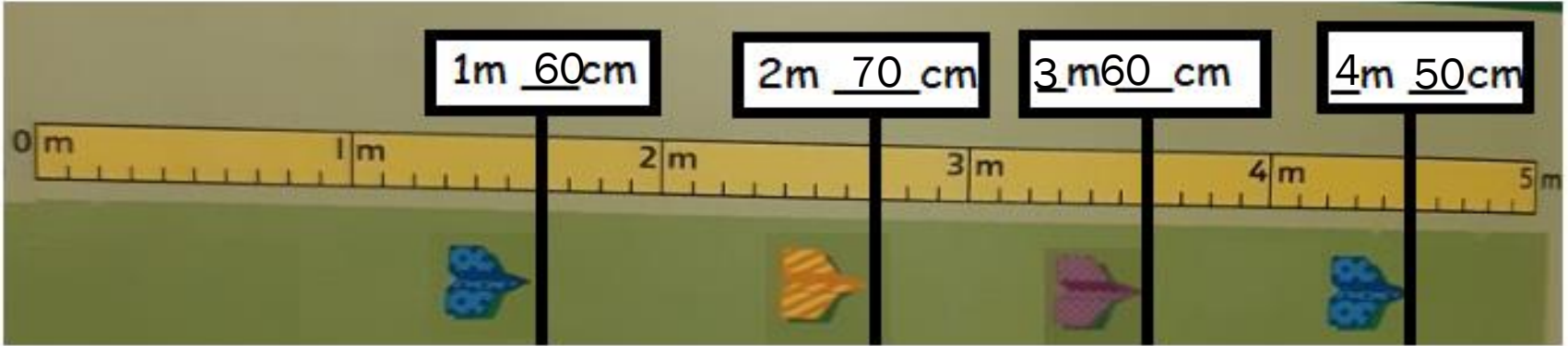
Measure your friends and record the measurements in your math book.

Who is the tallest?
Who is the shortest?
How much taller is ___ than ___?
How much shorter is ___ than ___?

Order your friend's heights from smallest to shortest.

DIVE DEEPER 2 ANSWERS

5 What distance did these paper aeroplanes travel? Write the equivalents below too.



_____ cm _____ cm _____ cm _____ cm

6 Children measure lines outside.

Three cartoon children are shown with speech bubbles:

- Girl 1: My line is 3m 45 cm. This is equivalent to **345** cm.
- Boy: My line is 4 metre and 02 centimetres long. This is equivalent to **402** cm.
- Girl 2: My line was 5 metre and 100 centimetres long. This is equivalent to **600** cm.

7 Use a measuring tape to measure your height.

I am ___m ___cm. This is equivalent to ___cm.

Measure your friends and record the measurements in your math book.

Who is the tallest?
 Who is the shortest?
 How much taller is ___ than ___?
 How much shorter is ___ than ___?

Order your family's heights from smallest to shortest.