

RECALL – MEASURING LENGTH IN METRES (M) / CENTIMETRES (CM)

Complete the table

Objects

Window

The window is 1.0 m tall.
This is equivalent to ____ cm.



The window is 1.5 m wide.
This is equivalent to ____ cm.

Whiteboard

The whiteboard is 1.4 m tall.
This is equivalent to ____ cm.



The whiteboard is 3.2 m long.
This is equivalent to ____ cm.

Door

The door is 1.9 m wide.
This is equivalent to ____ cm.



The door is 2.7 m tall.
This is equivalent to ____ cm.

Cupboard

The cupboard is 2.1 m wide.
This is equivalent to ____ cm.



The cupboard is 2.85 m tall.
This is equivalent to ____ cm.

Chair

The chair is 0.8 m tall.
This is equivalent to ____ cm.



Book bag

The book bag is 0.5 m tall.
This is equivalent to ____ cm.



3 BEFORE ME

Remember to 100 cm = 1m.



Compare objects using the symbols < > =.

____ > ____.
The length of the ____ is ____ cm greater.



RECALL – MEASURING LENGTH IN METRES (M) / CENTIMETRES (CM)

Complete the table

Objects

Window

The window is 1.0 m tall.
This is equivalent to **100** cm.



The window is 1.5 m wide.
This is equivalent to **150** cm.

Whiteboard

The whiteboard is 1.4 m tall.
This is equivalent to **140** cm.



The whiteboard is 3.2 m long.
This is equivalent to **320** cm.

Door

The door is 1.9 m wide.
This is equivalent to **190** cm.



The door is 2.7 m tall.
This is equivalent to **270** cm.

Cupboard

The cupboard is 2.1 m wide.
This is equivalent to **210** cm.



The cupboard is 2.85 m tall.
This is equivalent to **285** cm.

Chair

The chair is 0.8 m tall.
This is equivalent to **80** cm.



Book bag

The book bag is 0.5 m tall.
This is equivalent to **50** cm.



3 BEFORE ME

Remember to 100 cm = 1m.



Compare objects using the symbols < > =.

 > .
The length of the is cm greater.



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

Page

Success Criteria

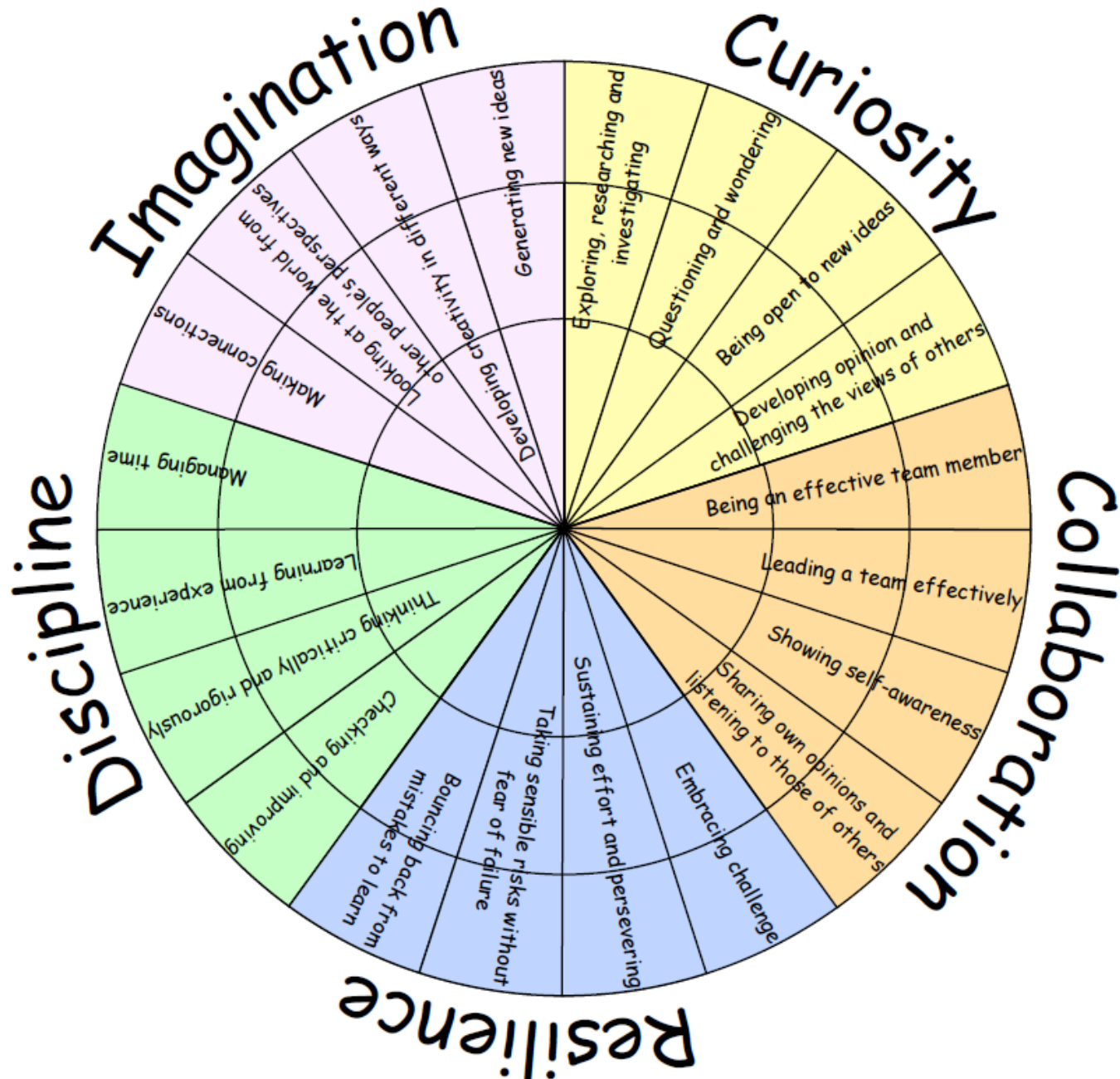
Some will even solve a variety of word problems.

Some will compare using equivalent measurements

Most will compare measurements (3.2m or 5.2m)

All will compare simple measurements (5cm or 6cm/ 9m or 6m)

LEARNING HABITS?



GUIDED PRACTICE

Ambrika, Olivia and Lee are waiting to go on the rollercoaster.

You need to be taller than 1m 30 cm.



Who is tall enough to ride it?



I am Lee. I am 1m 33cm tall.

I am Ambrika. I am 39 cm taller than 1m.



I am Olivia. I am 125 cm tall.

Lee is 1 m 33 cm tall.



1 m 33 cm



1 m 30 cm

This is greater than 1 m 30 cm, so he is tall enough to ride the roller coaster.

Ambrika is 39 cm taller than 1 m = 1 m 39.



1 m 39 cm



1 m 30 cm

This is greater than 1 m 30 cm, so she is tall enough to ride the roller coaster.

Olivia is 125 cm tall. This is 1 m 25.



1 m 25 cm




1 m 30 cm


This is shorter than 1 m 30 cm, so she is not tall enough to ride the roller coaster.

INTELLIGENT PRACTICE


Compare these cm measurements using < > =




5 cm ○ 8 cm
10 cm ○ 14 cm
16 cm ○ 13 cm
20 cm ○ 25 cm
1 m ○ 5m
3 m ○ 2m
8 m ○ 6m



56 cm ○ 29 cm
31 cm ○ 47 cm
78 cm ○ 91 cm
1.2 m ○ 2.3 m
3.8 m ○ 0.9 m
4.8 m ○ 5.1 m
6.2 m ○ 9.1 m



1.1 m ○ 110 cm
1.4 m ○ 140 cm
1.5 m ○ 120 cm
1.7 m ○ 180 cm
1.9 m ○ 210 cm
2.1 m ○ 230 cm
2.4 m ○ 190 cm



1.42 m ○ 156 cm
1.71 m ○ 147 cm
1.52 m ○ 152 cm
1.65 m ○ 113 cm
2.85 m ○ 284 cm
3.98 m ○ 399 cm
4.15 m ○ 451 cm

3 BEFORE ME
Remember 100 cm in 1m



CHALLENGE
Work out the differences for each calculation.
8 cm is 3cm bigger than 5cm.
14 cm is 4 cm greater than 14cm.



INTELLIGENT PRACTICE

Compare these cm measurements using $<$ $>$ $=$

5 cm $<$ 8 cm 

10 cm $<$ 14 cm

16 cm $>$ 13 cm

20 cm $<$ 25 cm

1 m $<$ 5m

3 m $>$ 2m

8 m $>$ 6m

56 cm $>$ 29 cm 

31 cm $<$ 47 cm

78 cm $<$ 91 cm

1.2 m $<$ 2.3 m

3.8 m $>$ 0.9 m

4.8 m $<$ 5.1 m

6.2 m $<$ 9.1 m

1.1 m $=$ 110 cm 

1.4 m $=$ 140 cm

1.5 m $>$ 120 cm

1.7 m $<$ 180 cm

1.9 m $<$ 210 cm

2.1 m $<$ 230 cm

2.4 m $>$ 190 cm

1.42 m $<$ 156 cm 

1.71 m $>$ 147 cm

1.52 m $=$ 152 cm

1.65 m $>$ 113 cm

2.85 m $>$ 284 cm

3.98 m $<$ 399 cm

4.15 m $<$ 451 cm

3 BEFORE ME

Remember 100 cm in 1m




CHALLENGE

Work out the differences for each calculation.
8 cm is 3cm bigger than 5cm.
14 cm is 4 cm greater than 14cm.




DIVE DEEPER





1 Complete the sentences. **A** **B** **C**




Child ___ is the tallest.
Child ___ is the shortest.

2 Some children want to go on a rollercoaster, but you need to be 1.5 m tall. That is 150 cm. Who can go on it? Tick who can.



	I am 154 cm tall.
	I am 1 m 32 cm tall.
	I am 0.9 m tall.
	I am 1.6 m tall.

3 The blue ribbon is 95 cm long.
The green ribbon is 0.9 cm long.
The red ribbon is 91 cm long.



Which ribbon is the longest? _____
Which is the shortest? _____

4 Three children have a competition to see how far they can throw a foam javelin.



Monika threw the javelin 3m 59 cm.
Lexi threw the javelin 363 cm.
Danny threw the javelin 2 m 99 cm.

Who is in first, second and third place?








5 Write the following lengths in ascending order (from shortest to longest).

200 cm 875 cm 6 m 51 1.9 m 3 m 12cm

Shortest Longest

1 m 35cm < _____ cm < 1m 370 mm

Astrid thinks this can not be solved as it includes metres, centimetres and millimetres. Do you agree? 

Explain.


DIVE DEEPER





1 Complete the sentences. **A** **B** **C**




Child **A** is the tallest.
Child **C** is the shortest.

2 Some children want to go on a rollercoaster, but you need to be 1.5 m tall. That is 150 cm. Who can go on it? Tick who can.



	I am 154 cm tall. <input checked="" type="checkbox"/>
	I am 1 m 32 cm tall. <input type="checkbox"/>
	I am 0.9 m tall. <input type="checkbox"/>
	I am 1.6 m tall. <input checked="" type="checkbox"/>

3 The blue ribbon is 95 cm long.
The green ribbon is 0.9 cm long.
The red ribbon is 91 cm long.



Which ribbon is the longest? **Blue ribbon**
Which is the shortest? **Green ribbon**

4 Three children have a competition to see how far they can throw a foam javelin.



Monika threw the javelin 3m 59 cm.
Lexi threw the javelin 363 cm.
Danny threw the javelin 2 m 99 cm.

Who is in first, second and third place?



Lexi



Monika



Danny

5 Write the following lengths in ascending order (from shortest to longest).

200 cm 875 cm 6 m 51 1.9 m 3 m 12cm

Shortest Longest

1.9 m

200 cm


3m 12cm

6m 51

875 cm

1 m 35cm < _____ cm < 1m 370 mm

Astrid thinks this can not be solved as it includes metres, centimetres and millimetres. Do you agree? Explain.



DIVE DEEPER 2

Mo and Alex each have a skipping rope.

Alex says,



I have the longest skipping rope. My skipping rope is $2\frac{1}{2}$ metres long.

Mo says,



My skipping rope is the longest because it is 220 cm and 220 is greater than $2\frac{1}{2}$.

Who is correct?

Explain your answer.

Eva has a skipping rope which is 500 cm long. She says that her skipping rope is double the length of Alex's rope. Do you agree?

Explain.



DIVE DEEPER 2 ANSWERS

Mo and Alex each have a skipping rope.

Alex says,



I have the longest skipping rope. My skipping rope is $2\frac{1}{2}$ metres long.

Mo says,



My skipping rope is the longest because it is 220 cm and 220 is greater than $2\frac{1}{2}$

Who is correct?

Explain your answer.

Alex is correct because her skipping rope is 250 cm long which is 30 cm more than 220 cm.

Eva has a skipping rope which is 500 cm long. She says that her skipping rope is double the length of Alex's rope. Do you agree? Explain.

Alex's skipping rope is $2\frac{1}{2}$ meters long or 250cm. Eva's rope is 500 cm long. If you double 250 cm it makes 500 cm so Eva is correct.

$$250 + 250 = 500$$

