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

Daisy

The daisy is 20 cm tall.
This is equivalent to 0.__ metres.

Rose

The rose is 56 cm wide.
This is equivalent to 0.___ metres.

Lavender

The lavender is 92 cm tall.
This is equivalent to 0.___ metres

Sunflower

The sunflower is 130 cm tall.
This is equivalent to 1.___ metres.

Bush

The bush is 140 cm tall.
This is equivalent to 1.__ metres.

Hedge

The hedge is 170 cm tall.
This is equivalent to 1.___ metres.

Plant

The plant is 264 cm tall.
This is equivalent to 2.___ metres

Tree

The tree is 580 cm tall.
This is equivalent to __.___ metres.

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)

Daisy

The daisy is 20 cm tall.
This is equivalent to 0.2 metres.

Rose

The rose is 56 cm wide.
This is equivalent to 0.56 metres.

Lavender

The lavender is 92 cm tall.
This is equivalent to 0. 92 metres

Sunflower

The sunflower is 130 cm tall.
This is equivalent to 1 . 3 metres.

Bush

The bush is 140 cm tall.
This is equivalent to 1. 4 metres.

Hedge

The hedge is 170 cm tall.
This is equivalent to 1.7 metres.

Plant

The plant is 264 cm tall.
This is equivalent to 2 . 64 metres

Tree

The tree is 580 cm tall.
This is equivalent to 5 . 8 metres.

3 BEFORE ME

Remember to 100 cm = 1m.

Compare objects using the symbols < > =.

_____ > _____.

The length of the _____ is __ cm greater.

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

Page

Success Criteria

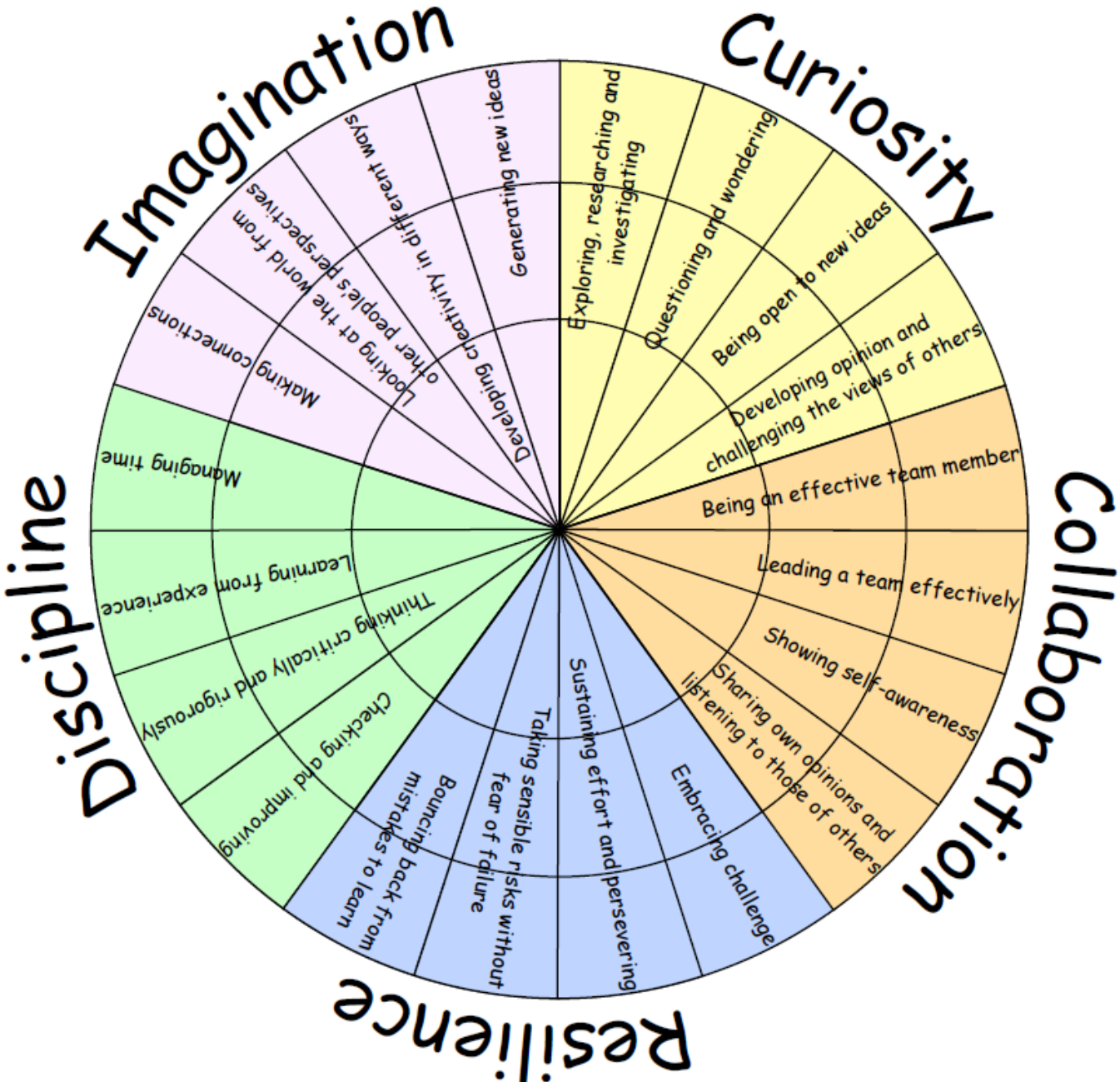
Some will even bridge.

Some will convert before adding measurements.

Most will add measurements (without converting or bridging).

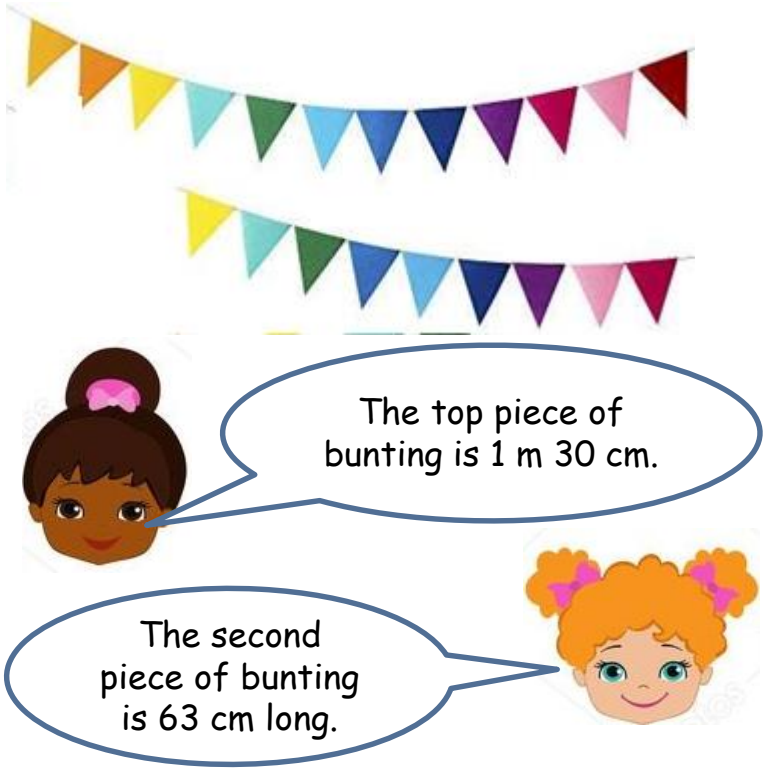
All will add simple measurements (5cm + 3 cm)

LEARNING HABITS?



GUIDED PRACTICE

Here are two pieces of bunting which need to be hung up for a birthday party. They are not the same length.



If I add both pieces together, how long will the bunting be?

I can organise my thinking by using the method of column addition.

1m 30 cm + 63 cm = ?

The equivalent of 1m 30 cm is 130 cm.

130 cm + 63 cm = ?

	H	T	U
+	1	3	0
		6	3
	1	9	3

Step 1 - Convert any metres into centimetres.

Step 2 - Put the numbers under the right column.

Step 3 - Add the units.

Step 4 - Add the tens.

Step 5 - Add the hundred.

GUIDED EXAMPLES

13 cm + 34 cm =

	H	T	U
+			

42 cm + 53 cm =

	H	T	U
+			

1m 12 cm + 36 cm =

1m 12 cm is the same as 112 cm.

	H	T	U
+			

1m 46 cm + 23 cm =

1m 46 cm is the same as 146 cm.

	H	T	U
+			

1m 34 cm + 26 cm =

1m 34 cm is the same as 134 cm.

	H	T	U
+			

1m 52 cm + 51 cm =

1m 52 cm is the same as 152 cm.

	H	T	U
+			

Step 1 - Convert any metres into centimetres.
Step 2 - Put the numbers under the right column.
Step 3 – Add the units.
Step 4 - Add the tens.
Step 5 - Add the hundreds.

INTELLIGENT PRACTICE

Remember to convert your m into cm first!

12 cm + 23 cm =

	H	T	U
+			

25 cm + 34 cm =

	H	T	U
+			

47 cm + 32 cm =

	H	T	U
+			

1m 22 cm + 31 cm =

1m 22 cm is the same as ____ cm.

	H	T	U
+			

1m 54 cm + 45 cm =

1m 54 cm is the same as ____ cm.

	H	T	U
+			

1m 72 cm + 17 cm =

1m 72 cm is the same as ____ cm.

	H	T	U
+			

1m 44 cm + 48 cm =

1m 44 cm is the same as ____cm.

	H	T	U
+			

1m 62 cm + 64 cm =

1m 62 cm is the same as ____cm.

	H	T	U
+			

Solve this calculation.

2m 67cm + 3 m 81 cm + 4m 24 cm + 23 cm.

Explain how you did it.

Column, converted, exchanged, units, tens, hundreds.

INTELLIGENT PRACTICE

Remember to convert your m into cm first!

12 cm + 23 cm =

	H	T	U
+		1	2
		2	3
		3	5

25 cm + 34 cm =

	H	T	U
+		2	5
		3	4
		5	9

47 cm + 32 cm =

	H	T	U
+		4	7
		3	2
		7	9

1m 22 cm + 31 cm =

1m 22 cm is the same as ____ cm.

	H	T	U
+	1	2	2
		3	1
	1	5	3

1m 54 cm + 45 cm =

1m 54 cm is the same as ____ cm.

	H	T	U
+	1	5	4
		4	5
	1	9	9

1m 72 cm + 17 cm =

1m 72 cm is the same as ____ cm.

	H	T	U
+	1	7	2
		1	7
	1	8	9

1m 44 cm + 48 cm =

1m 44 cm is the same as ____ cm.

	H	T	U
		1	
+	1	4	4
		4	8
	1	9	2

1m 62 cm + 64 cm =

1m 62 cm is the same as ____ cm.

	H	T	U
	1		
+	1	6	2
		6	4
	2	2	6

	1	1	
	2	6	7 cm
	3	8	1 cm
+	4	2	4 cm
		2	3 cm
	1	0	9 5

DIVE DEEPER 1 (CM OR M)

1 Here are two pieces of bunting for a party.

One piece is 45 cm.
The second piece is 24 cm

How long are they in total?

_____ cm

2 A carpenter joins two pieces of wood together.
One piece is 6 metres long.
The second is 3 metres long.

How long are they altogether?

_____ m

3 Work out the missing numbers in your head.
Write cm or m next to your answer.

14 cm + 13 cm = _____

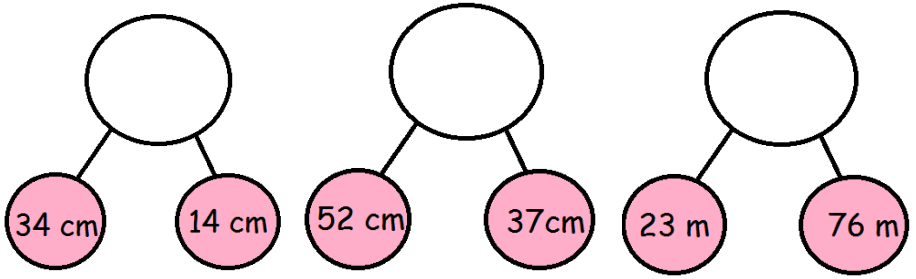
22 cm + 26 cm = _____

50 cm + 34 cm = _____

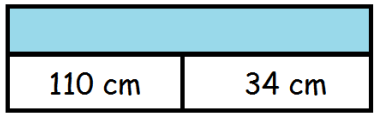
12 m + 6 m = _____

25 m + 14 m = _____

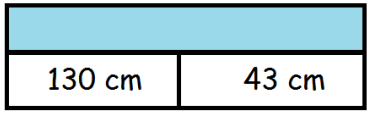
4 Complete the whole- part-part model.



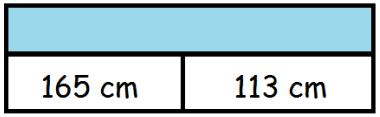
5 Use column addition to help complete the bar model.
Make sure you put the numbers in the right column.



	H	T	U
+			



	H	T	U
+			



	H	T	U
+			

DIVE DEEPER 1 ANSWERS

1 Here are two pieces of bunting for a party.

One piece is 45 cm.
The second piece is 24 cm

How long are they in total? **69 cm**

2 A carpenter joins two pieces of wood together.
One piece is 6 metres long.
The second is 3 metres long.

How long are they altogether? **9 m**

3 Work out the missing numbers in your head.
Write cm or m next to your answer.

14 cm + 13 cm = **27 cm**

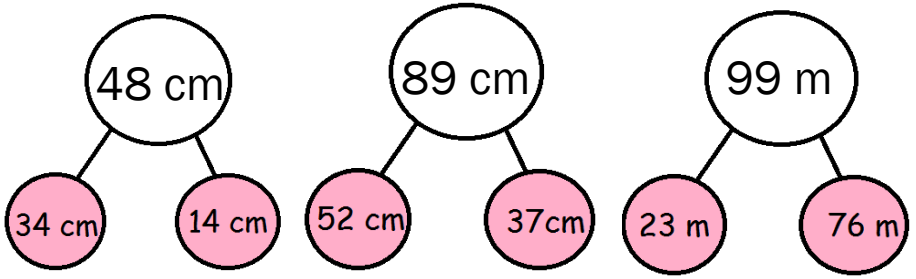
22 cm + 26 cm = **48 cm**

50 cm + 34 cm = **84 cm**

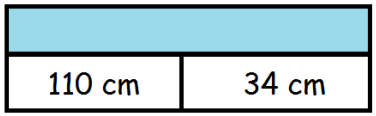
12 m + 6 m = **18 m**

25 m + 14 m = **39 m**

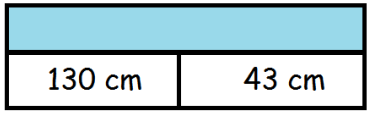
4 Complete the whole- part-part model.



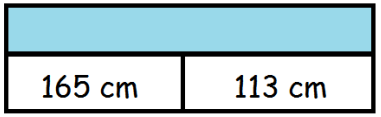
5 Use column addition to help complete the bar model.
Make sure you put the numbers in the right column.



	H	T	U
+	1	1	0
		3	4
	1	4	4



	H	T	U
+	1	3	0
		4	3
	1	7	3



	H	T	U
+	1	1	3
	1	6	5
	2	7	8

DIVE DEEPER 2 ANSWERS

1

One piece of rope is 1m 26 cm.
A second piece is 31 cm.

How long are they together?

	H	T	U
+	1	2	6
		3	1
	1	5	7

2

One set of lights is 1 m 34 cm.
The second set of lights is 61 cm.
How long are they together?

	H	T	U
+	1	3	4
		6	1
	1	9	5

3

The light pink wool is 1m 50 cm.
The dark pink wool is 1m 34 cm.
How much wool is there?

	H	T	U
+	1	5	0
	1	3	4
	2	8	4

4

A shop makes a display by putting a vase on a stand.
What is the total height of the display?

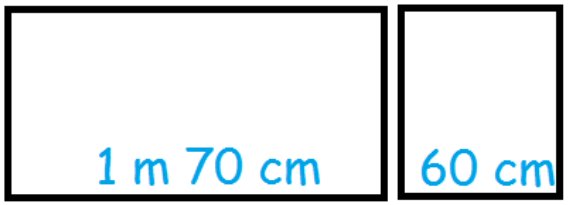
1m 70cm

5

Richard knits a scarf that is 1m 80 cm long.
He knits another 30cm.
How long is the scarf now? 2m 10 cm
Explain how you worked it out in your maths book.

6

The girls measured the total width of two windows.



Jane

When I add 60 cm to 1m 70 cm, I get 1 m 130 cm.

Sarah

When I add 60 cm to 1m 70 cm, I get 2 m 30 cm.

Is Jane right or wrong? Is Sarah right or wrong? If so, what was their mistake?
Sarah is correct. Jane did not add in the extra metre.

DIVE DEEPER 2 (CONVERT CM TO M)

1

One piece of rope is 1m 26 cm.
A second piece is 31 cm.

How long are they together?

	H	T	U
+			

2

One set of lights is 1 m 34 cm.
The second set of lights is 61 cm.
How long are they together?

	H	T	U
+			

3

The light pink wool is 1m 50 cm.
The dark pink wool is 1m 34 cm.
How much wool is there?

	H	T	U
+			

4

A shop makes a display by putting a vase on a stand.
What is the total height of the display?

50 cm

1m 20 cm

5

Richard knits a scarf that is 1m 80 cm long.
He knits another 30cm.
How long is the scarf now?
Explain how you worked it out in your maths book.

6

The girls measured the total width of two windows.

1 m 70 cm | 60 cm

Jane

When I add 60 cm to 1m 70 cm, I get 1 m 130 cm.

Sarah

When I add 60 cm to 1m 70 cm, I get 2 m 30 cm.

Is Jane right or wrong? Is Sarah right or wrong? If so, what was their mistake?