

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

## Mouse

The mouse is 15 cm tall.  
This is equivalent to 0. metres.



## Rabbit

The rabbit is 56 cm wide.  
This is equivalent to 0. metres.



## Cat

The cat is 83 cm tall.  
This is equivalent to 0. metres



## Dog

The dog is 110 cm tall.  
This is equivalent to 1. metres.



## Pony

The pony is 130 cm tall.  
This is equivalent to 1. metres.



## Horse

The horse is 170 cm tall.  
This is equivalent to 1. metres.



## Elephant

The elephant is 230 cm tall.  
This is equivalent to 2. metres



## Giraffe

The giraffe is 467 cm tall.  
This is equivalent to 4. metres



## 3 BEFORE ME

Remember to 100 cm = 1m.



Compare objects using the symbols < > =.

     >     .  
The length of the      is      cm greater.



# RECALL ANSWERS

## Mouse

The mouse is 15 cm tall.  
This is equivalent to 0.15 metres.



## Rabbit

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



## Cat

The cat is 83 cm tall.  
This is equivalent to 0.83 metres



## Dog

The dog is 110 cm tall.  
This is equivalent to 1.10 metres.



## Pony

The pony is 130 cm tall.  
This is equivalent to 1.30 metres.



## Horse

The horse is 170 cm tall.  
This is equivalent to 1.70 metres.



## Elephant

The elephant is 230 cm tall.  
This is equivalent to 2.30 metres



## Giraffe

The giraffe is 467 cm tall.  
This is equivalent to 4.67 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

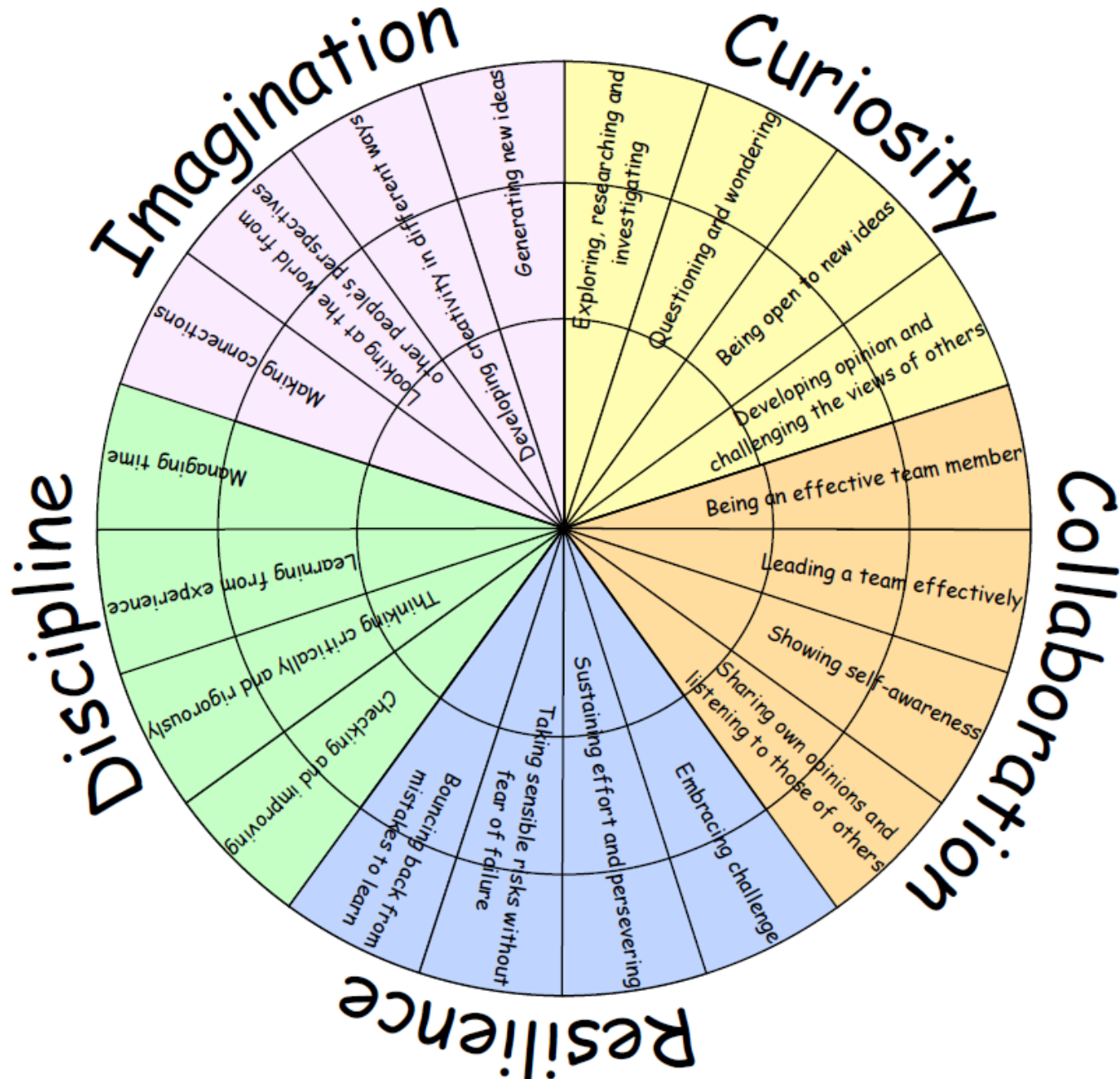
**Some will even** bridge.

**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.



The top piece of bunting is 1 m 30 cm.



The second piece of bunting is 63 cm long.

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

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

$$1\text{m } 30\text{ cm} + 63\text{ cm} = ?$$

The equivalent of 1m 30 cm is 130 cm.

$$130\text{ cm} + 63\text{ cm} = ?$$

	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 hundreds.

# GUIDED EXAMPLES (SHOW YOUR CHILD HOW TO DO IT)

$46 \text{ cm} + 13 \text{ cm} =$

	H	T	U
+			

$58 \text{ cm} + 31 \text{ cm} =$

	H	T	U
+			

$1\text{m } 18 \text{ cm} + 21 \text{ cm} =$

1m 18 cm is the same as 118 cm.

	H	T	U
+			

$1\text{m } 63 \text{ cm} + 23 \text{ cm} =$

1m 63 cm is the same as 163 cm.

	H	T	U
+			

$1\text{m } 45 \text{ cm} + 36 \text{ cm} =$

1m 45 cm is the same as 145 cm.

	H	T	U
+			

$1\text{m } 56 \text{ cm} + 51 \text{ cm} =$

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



Convert any metres into centimetres.



$15 \text{ cm} + 24 \text{ cm} =$

	H	T	U
+			

$32 \text{ cm} + 41 \text{ cm} =$

	H	T	U
+			

$62 \text{ cm} + 35 \text{ cm} =$

	H	T	U
+			



$1\text{m } 35 \text{ cm} + 44 \text{ cm} =$   
 $1\text{m } 35 \text{ cm}$  is the same as \_\_\_\_\_ cm.

	H	T	U
+			

$1\text{m } 57 \text{ cm} + 41 \text{ cm} =$   
 $1\text{m } 57 \text{ cm}$  is the same as \_\_\_\_\_ cm.

	H	T	U
+			

$1\text{m } 76 \text{ cm} + 13 \text{ cm} =$   
 $1\text{m } 76 \text{ cm}$  is the same as \_\_\_\_\_ cm.

	H	T	U
+			



$1\text{m } 37 \text{ cm} + 17 \text{ cm} =$   
 $1\text{m } 37 \text{ cm}$  is the same as \_\_\_\_\_ cm.

	H	T	U
+			

$1\text{m } 60 \text{ cm} + 68 \text{ cm} =$   
 $1\text{m } 60 \text{ cm}$  is the same as \_\_\_\_\_ cm.

	H	T	U
+			

Solve this calculation.



$2\text{m } 47\text{cm} + 3 \text{ m } 81 \text{ cm} + 4\text{m } 64 \text{ cm} + 15 \text{ cm}.$

Explain how you did it.

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

# INTELLIGENT PRACTICE



Convert any metres into centimetres.



$15 \text{ cm} + 24 \text{ cm} =$

	H	T	U
+		1	5
		2	4
		3	9

$32 \text{ cm} + 41 \text{ cm} =$

	H	T	U
+		3	2
		4	1
		7	3

$62 \text{ cm} + 35 \text{ cm} =$

	H	T	U
+		6	2
		3	5
		9	7

$1\text{m } 35 \text{ cm} + 44 \text{ cm} =$

1m 35 cm is the same as \_\_\_ cm.

	H	T	U
+	1	3	5
		4	4
	1	7	9

$1\text{m } 57 \text{ cm} + 41 \text{ cm} =$

1m 57 cm is the same as \_\_\_ cm.

	H	T	U
+	1	5	7
		4	1
	1	9	8

$1\text{m } 76 \text{ cm} + 13 \text{ cm} =$

1m 76 cm is the same as \_\_\_ cm.

	H	T	U
+	1	7	6
		1	3
	1	8	9

$1\text{m } 37 \text{ cm} + 17 \text{ cm} =$

1m 37 cm is the same as \_\_\_ cm.

	H	1 T	U
+	1	3	7
		1	7
	1	5	4

$1\text{m } 60 \text{ cm} + 68 \text{ cm} =$

1m 60 cm is the same as \_\_\_ cm.

	1 H	T	U
+	1	6	0
		6	8
	2	2	8

Solve this calculation.

Solve this calculation.

$$\begin{array}{r}
 22147 \\
 + 381 \\
 464 \\
 15 \\
 \hline
 1107
 \end{array}$$






# DIVE DEEPER 1

1 Here are two pieces of bunting for a party.


One piece is 50 cm.  
The second piece is 30 cm



How long are they in total?  cm

2 A carpenter joins two pieces of wood together.

One piece is 4 metres long.  
The second is 6 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.

11 cm + 22 cm =

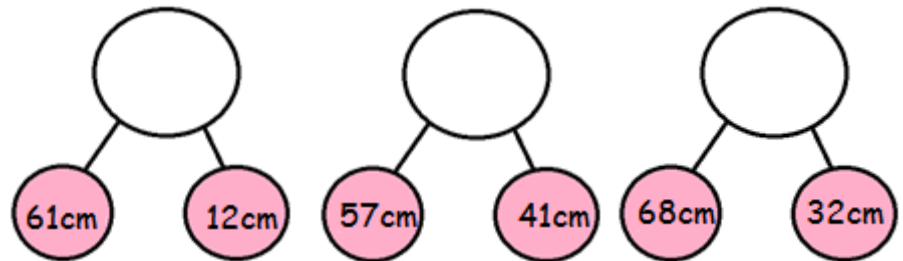
25 cm + 33 cm =

45 cm + 24 cm =

72 m + 6 m =

60 m + 36 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.

124 cm	131 cm

H	T	U

146 cm	153 cm

H	T	U


127 cm	162 cm

H	T	U

# DIVE DEEPER 1 ANSWERS

1 Here are two pieces of bunting for a party.


One piece is 50 cm.  
The second piece is 30 cm



How long are they in total?

2 A carpenter joins two pieces of wood together.

One piece is 4 metres long.  
The second is 6 metres long.



How long are they altogether?

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

11 cm + 22 cm =

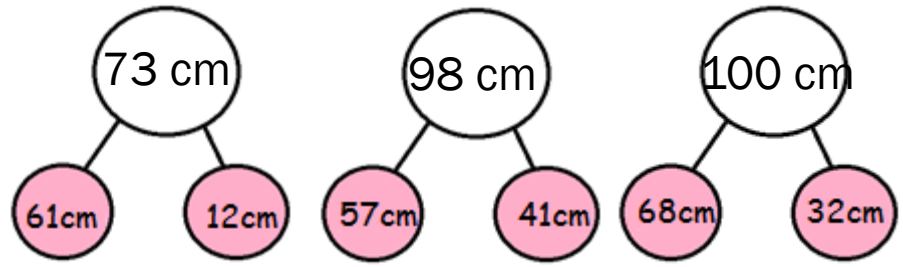
25 cm + 33 cm =

45 cm + 24 cm =

72 m + 6 m =

60 m + 36 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.

124 cm	131 cm

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

146 cm	153 cm

	H	T	U
+	1	4	6
	1	5	3
	2	9	9

127 cm	162 cm


	H	T	U
+	1	2	7
	1	6	2
	2	8	9

# DIVE DEEPER 2 (CONVERT CM TO M)

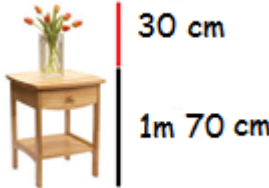
1 One piece of rope is 1m 31 cm.  
A second piece is 44 cm.

How long are they together?

	H	T	U
+			




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




2 One set of lights is 1 m 42 cm.  
The second set of lights is 56 cm.  
How long are they together?

	H	T	U
+			




5 Richard knits a scarf that is 1m 70 cm long.  
He knits another 40 cm.  
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 80 cm

60cm



Jane

When I add 60 cm to 1m 80 cm, I get 1 m 140 cm.


Sarah

When I add 60 cm to 1m 80 cm, I get 2 m 40 cm.

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

3 The dark blue wool is 1m 60 cm.  
The dark pink wool is 1m 24 cm.  
How much wool is there?

	H	T	U
+			



# DIVE DEEPER 2 ANSWERS (CONVERT CM TO M)

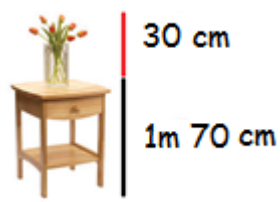
1 One piece of rope is 1m 31 cm.  
A second piece is 44 cm.



How long are they together?

	H	T	U
+	1	3	1
		4	4
	1	7	5

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



200 cm

2 One set of lights is 1 m 42 cm.  
The second set of lights is 56 cm.  
How long are they together?

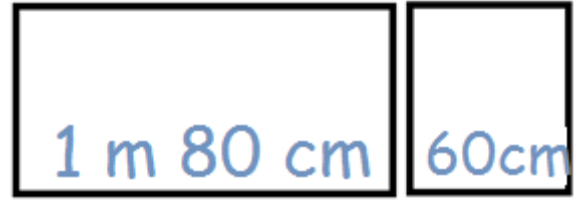


	H	T	U
+	1	4	2
		5	6
	1	8	8

5 Richard knits a scarf that is 1m 70 cm long.  
He knits another 40 cm. 210 cm  
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.



3 The dark blue wool is 1m 60 cm.  
The dark pink wool is 1m 24 cm.  
How much wool is there?



	H	T	U
+	1	6	0
	1	2	4
	2	8	4

Jane  
When I add 60 cm to 1m 80 cm, I get 1 m 140 cm.

Sarah  
When I add 60 cm to 1m 80 cm, I get 2 m 40 cm.

Is Jane right or wrong? Is Sarah right or wrong? If so, what was their mistake? Sarah is correct. Jane forgot to go over the next meter.  $180 + 60 = 240$ .