

RECALL – COUNTING BACK IN ONES, TENS OR HUNDREDS

Subtract in ones



16

15

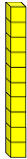
54

53

72

71

Subtract in tens



90

80

95

85

91

81

0

5

1

Subtract in hundreds



900

800

912

812

967

867

3 BEFORE ME



Can you count back in multiples of 10?
Pick a number and count back in 20s, 30s, 40s etc...

120 100 80 60 40 20 0



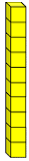
RECALL ANSWERS

Subtract in ones



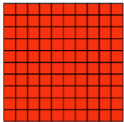
16	15	14	13	12	11	10	9	8	7
54	53	52	51	50	49	48	47	46	45
72	71	70	69	68	67	66	65	64	63

Subtract in tens



90	80	70	60	50	40	30	20	10	0
95	85	75	65	55	45	35	25	15	5
91	81	71	61	51	41	31	21	11	1

Subtract in hundreds



900	800	700	600	500	400	300	200	100	0
912	812	712	612	512	412	312	212	112	12
967	867	767	667	567	467	367	267	167	67

3 BEFORE ME



Can you count back in multiples of 10?
Pick a number and count back in 20s, 30s, 40s etc...

120 100 80 60 40 20 0



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

Page

Success Criteria

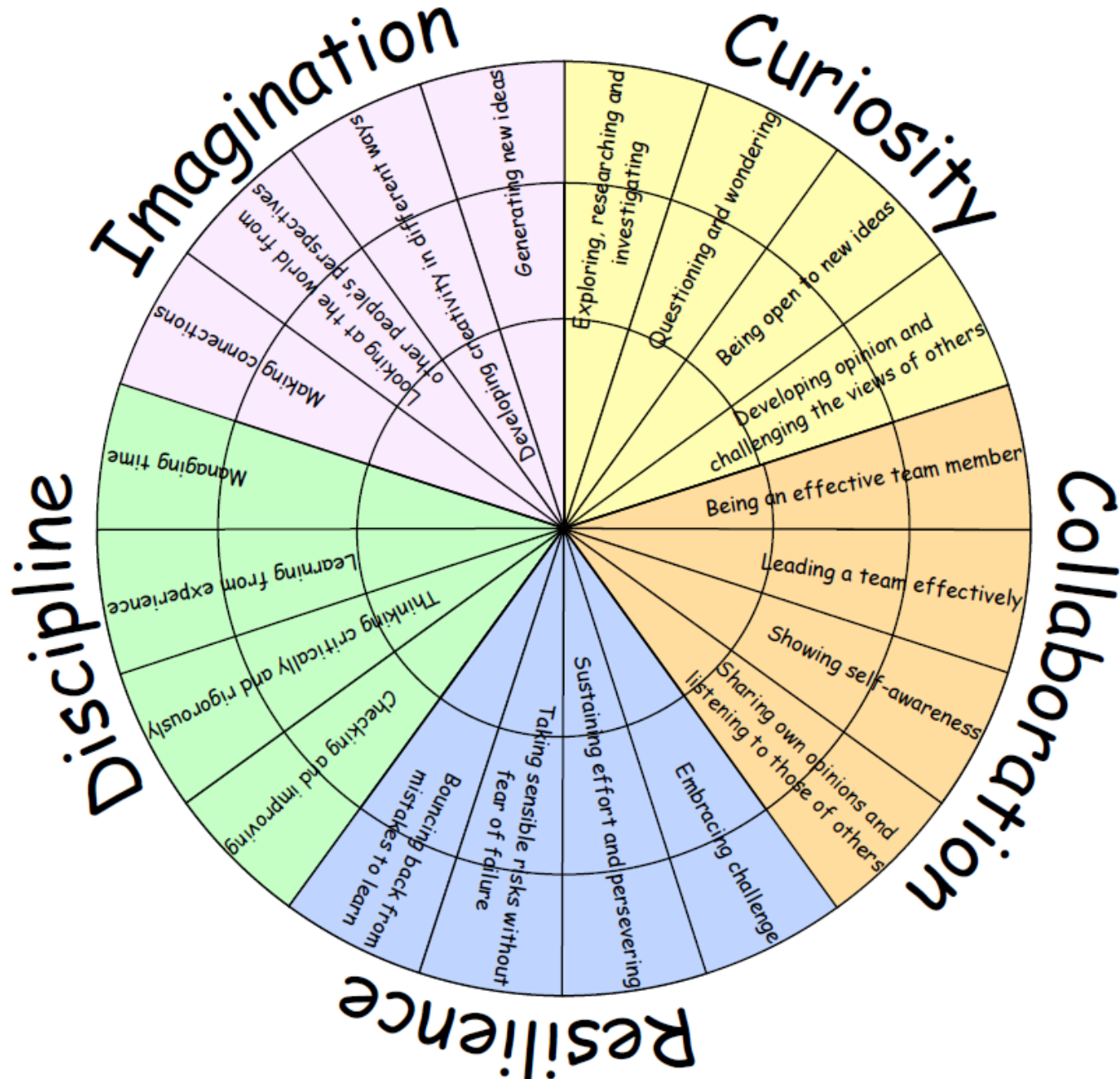
Some will even exchange Tens and Hundreds.

Some will convert before subtracting measurements.

Most will subtract measurements (without converting or exchanging).

All will subtract simple measurements (5cm - 3 cm)

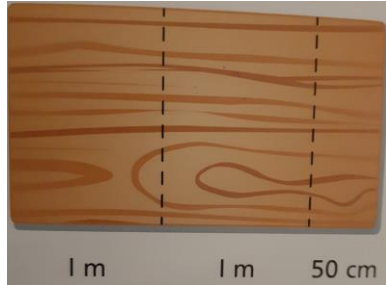
LEARNING HABITS?



GUIDED PRACTICE



Holly is making a guinea pig run.



She has a piece of wood that is 2 metres 50 centimetres. This is equivalent to 250 cm.

She is going to cut off a piece of wood that is 1 metre long (100 cm).

What length of wood will be left after Holly has cut off the 1 metre piece?

$$2\text{m } 50\text{ cm} - 1\text{m} = ?$$

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

$$2\text{m } 50\text{ cm} - 1\text{m} = ?$$

The equivalent of 2m 50 cm is 250 cm.
The equivalent of 1m is 100 cm.

$$250\text{ cm} - 100\text{ cm} = \boxed{}$$

	H	T	U
+	2	5	0
	1	0	0
	1	5	0

Step 1 - Convert any metres into centimetres.

Step 2 - Put the numbers under the right column.

Step 3 - Subtract the **units**.

Step 4 - Subtract the **tens**.

Step 5 - Subtract the **hundreds**.

GUIDED EXAMPLES (SHOW YOUR CHILD HOW TO DO IT)

EXCHANGE

$$38 \text{ cm} - 14 \text{ cm} =$$

H	T	U

$$79 \text{ cm} - 52 \text{ cm} =$$

H	T	U

$$1\text{m } 57 \text{ cm} - 23 \text{ cm} =$$

1m 57 cm is the same as 157 cm.

H	T	U

$$1\text{m } 96 \text{ cm} - 82 \text{ cm} =$$

1m 96 cm is the same as 196 cm.

H	T	U

$$1\text{m } 32 \text{ cm} - 28 \text{ cm} =$$

1m 32 cm is the same as 132 cm.

H	T	U

$$1\text{m } 74 \text{ cm} - 56 \text{ cm} =$$

1m 74 cm is the same as 174 cm.

H	T	U

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



GUIDED EXAMPLES (SHOW YOUR CHILD HOW TO DO IT)

EXCHANGE

$38 \text{ cm} - 14 \text{ cm} =$

	H	T	U
-		3	8
		1	4
		2	4

$79 \text{ cm} - 52 \text{ cm} =$

	H	T	U
-		7	9
		5	2
		2	7

$1\text{m } 57 \text{ cm} - 23 \text{ cm} =$

1m 57 cm is the same as 157 cm.

	H	T	U
-	1	5	7
		2	3
	1	3	4

$1\text{m } 96 \text{ cm} - 82 \text{ cm} =$

1m 96 cm is the same as 196 cm.

	H	T	U
-	1	9	6
		8	2
	1	1	4

$1\text{m } 32 \text{ cm} - 28 \text{ cm} =$

1m 32 cm is the same as 132 cm.

	H	T	U
-	1	3	2
		2	8
	1	0	4

$1\text{m } 74 \text{ cm} - 56 \text{ cm} =$

1m 74 cm is the same as 174 cm.

	H	T	U
-	1	7	4
		5	6
	1	1	8

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



INTELLIGENT PRACTICE



Convert any metres into centimetres.



$$56 \text{ cm} - 31 \text{ cm} =$$

H	T	U

$$77 \text{ cm} - 43 \text{ cm} =$$

H	T	U

$$98 \text{ cm} - 35 \text{ cm} =$$

H	T	U



$$1\text{m } 43 \text{ cm} - 21 \text{ cm} =$$

1m 43 cm is the same as 143 cm.

H	T	U

$$1\text{m } 59 \text{ cm} - 38 \text{ cm} =$$

1m 59 cm is the same as 159 cm.

H	T	U

$$1\text{m } 98 \text{ cm} - 47 \text{ cm} =$$

1m 98 cm is the same as 198 cm.

H	T	U



$$1\text{m } 34 \text{ cm} - 15 \text{ cm} =$$

1m 34 cm is the same as 134 cm.

H	T	U

$$1\text{m } 65 \text{ cm} - 71 \text{ cm} =$$

1m 65 cm is the same as 165 cm.

H	T	U

Solve this calculation.

$$7\text{m } 56 \text{ cm} - 5\text{m } 69 \text{ cm}$$

Explain how you did it.

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



INTELLIGENT PRACTICE ANSWERS

Convert any metres into centimetres.



$56 \text{ cm} - 31 \text{ cm} =$

	H	T	U
-		5	6
		3	1
		2	5

$77 \text{ cm} - 43 \text{ cm} =$

	H	T	U
-		7	7
		4	3
		3	4

$98 \text{ cm} - 35 \text{ cm} =$

	H	T	U
-		9	8
		3	5
		6	3



$1\text{m } 43 \text{ cm} - 21 \text{ cm} =$

1m 43 cm is the same as 143 cm.

	H	T	U
-	1	4	3
		2	1
	1	2	2

$1\text{m } 59 \text{ cm} - 38 \text{ cm} =$

1m 59 cm is the same as 159 cm.

	H	T	U
-	1	5	9
		3	8
	1	2	1

$1\text{m } 98 \text{ cm} - 47 \text{ cm} =$

1m 98 cm is the same as 198 cm.

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



$1\text{m } 34 \text{ cm} - 15 \text{ cm} =$

1m 34 cm is the same as 134 cm.

	H	T	U
-	1	3	4
		1	5
	1	1	9

$1\text{m } 65 \text{ cm} - 71 \text{ cm} =$

1m 65 cm is the same as 165 cm.

	H	T	U
-	1	6	5
		7	1
		9	4

Solve this calculation.




$7\text{m } 56 \text{ cm} - 5\text{m } 69 \text{ cm} =$
 $1\text{m } 87\text{cm}$

Explain how you did it.

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


DIVE DEEPER 1 (CM UP TO 100) 5

1 This baguette is 20 cm long.
I cut it in half.




How long is each half? cm

2 This piece of wood is 95 cm long.
I cut off 41 cm.



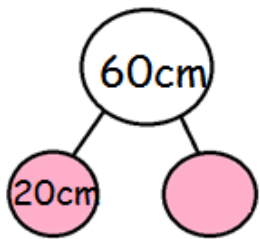
How long is left? cm

3 This rose's stalk is 50 cm.
I trim 10 cm from it.
Write the calculation.

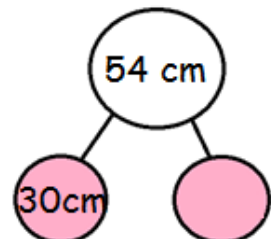


- =

4 Complete the whole-part-part model.




60 cm - 20 cm =



54 cm - 30 cm =


5 Alice drew a picture on a piece of paper.
The paper was 95 cm wide
She uses scissors to cut off 32 cm.



How wide is her picture? cm

6 The zookeeper gives each panda a piece of bamboo that is 1 metre long. That is equivalent to 100 cm.


Panda A eats 60 cm. How much bamboo is left?
Show your working out with column subtraction.



H	T	U
-		


Panda B eats 35 cm.
How much bamboo is left?

H	T	U
-		




DIVE DEEPER 1 ANSWERS (CM UP TO 100)

1 This baguette is 20 cm long.
I cut it in half.




How long is each half?

2 This piece of wood is 95 cm long.
I cut off 41 cm.



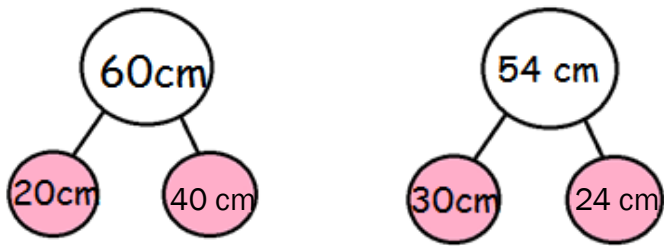
How long is left?

3 This rose's stalk is 50 cm.
I trim 10 cm from it.
Write the calculation.




- =

4 Complete the whole-part-part model.



$60 \text{ cm} - 20 \text{ cm} = 40 \text{ cm}$ $54 \text{ cm} - 30 \text{ cm} = 24 \text{ cm}$


5 Alice drew a picture on a piece of paper.
The paper was 95 cm wide
She uses scissors to cut off 32 cm.



How wide is her picture?


6 The zookeeper gives each panda a piece of bamboo that is 1 metre long. That is equivalent to 100 cm.

Panda A eats 60 cm. How much bamboo is left?
Show your working out with column subtraction.



	H	T	U
-	1	0	0
		6	0
		4	0

Panda B eats 35 cm.
How much bamboo is left?




	H	T	U
-		4	0
		3	5
			5

DIVE DEEPER 2 (EXCHANGING AND BEYOND 100 CM)

1 Alice's hair was 45 cm long. She has 26 cm cut off.


How long is her hair now?

cm




4 A farmer has been growing wheat in his fields. They have now grown to 1m 66 cm. He cuts them by 1 m 47. What is left?

	H	T	U
-			




2 A piece of ribbon is 1 m 76. I trim off 54 cm for a present. How long is the ribbon now?

	H	T	U
-			




5 This man is cutting a tree that has grown too tall. It is currently 5 m 67 cm. He cuts 2m 79 cm. How tall is the tree now?

	H	T	U
-			



3 A piece of string is 1 m 82 cm. I trim off 61 cm. How long is the ribbon now?



	H	T	U
-			



6 Lucy bought a new 10 metre reel of ribbon and used 2m 50 cm of it. She then lent the reel to Jack.

When Jack gave the reel back to Lucy, there was 3 m 60 cm of ribbon left.


How much Ribbon did Jack use? Show your working out.

1m 45 cm - 26 cm.

Is this true or false? Work it out first using column subtraction.

The answer is 120 cm.



DIVE DEEPER 2 (EXCHANGING AND BEYOND 100 CM) ANSWERS

1 Alice's hair was 45 cm long.
She has 26 cm cut off.

How long is her hair now?

19 cm



4 A farmer has been growing wheat in his fields.
They have now grown to 1m 66 cm.
He cuts them by 1 m 47.
What is left?

	H	T	U
-	1	6	6
	1	4	7
		1	9



2 A piece of ribbon is 1 m 76.
I trim off 54 cm for a present.
How long is the ribbon now?

	H	T	U
-	1	7	6
		5	4
	1	2	2



5 This man is cutting a tree that has grown
too tall. It is currently 5 m 67 cm.
He cuts 2m 79 cm.
How tall is the tree now?

	H	T	U
-	5	6	7
	2	7	9
	2	8	8



3 A piece of string is 1 m 82 cm.
I trim off 61 cm.
How long is the ribbon now?

	H	T	U
-	1	8	2
		6	1
	1	2	1



6 Lucy bought a new 10 metre reel of ribbon and used
2m 50 cm of it.
She then lent the reel to Jack.

When Jack gave the reel back
to Lucy, there was 3 m 60 cm of
ribbon left.

How much Ribbon did Jack use?
Show your working out.
 $1000 - 250 - 360 = 390$



1m 45 cm - 26 cm.

Is this true or false?
Work it out first using
column subtraction.

$145 - 26 = 119$ False



The
answer is
120 cm.