

RECALL – MEASURING LENGTH IN CENTIMETRES (CM)



Instructions

1. Pick an object in your home.
2. **Estimate** (sensible guess) how long the object is and record in the table.
3. **Measure** the **length** of your object using a ruler.
4. Record the length in the table.



Object	Estimated length	Actual length
Pencil	8 cm	12 cm

3 BEFORE ME

Remember to measure from 0 cm.



Compare objects using the symbols $<$ $>$ $=$.

$\underline{\quad}$ $>$ $\underline{\quad}$. The length of the $\underline{\quad}$ is $\underline{\quad}$ cm greater.
The difference between $\underline{\quad}$ and $\underline{\quad}$ is $\underline{\quad}$ cm.



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

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Success Criteria

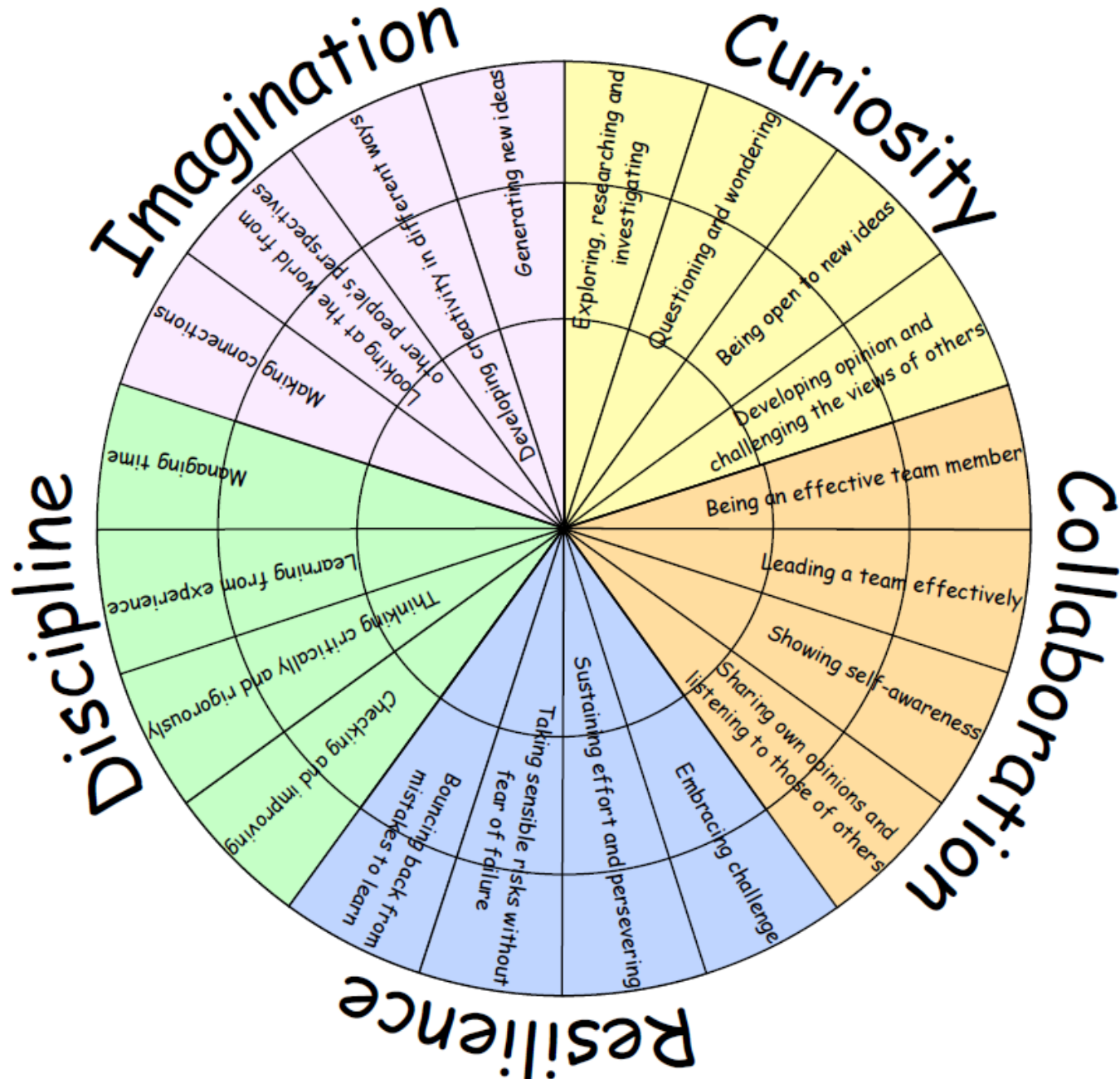
Some will even know equivalent measurements (convert cm and m).

Some will measure lengths above 1 metre.

Most will measure lengths up to 1 metre.

All will estimate lengths and use a ruler to measure (below 30 centimetres).

LEARNING HABITS?



MODELLED EXAMPLE

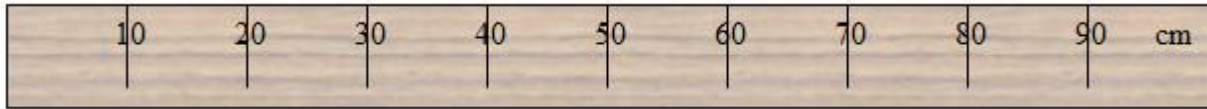
- One metre has 100 **centimetres (cm)**.



$$1 \times 100 = 100$$



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



- One metre has one hundred centimetres (cm).



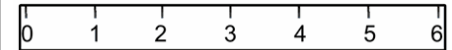
$$100 \times 1 = 100$$



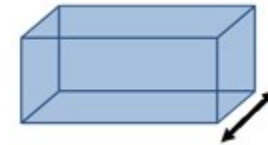
One metre can be written as 1 m. It has 100 cm.

We can **measure** lengths, widths and heights with a ruler or measuring tape. It helps us to be **accurate**.

Length means how long something is.



Width is how wide something is.

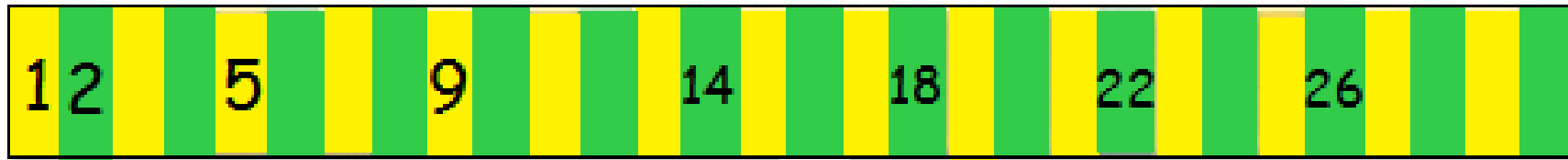


Height is how tall something is.

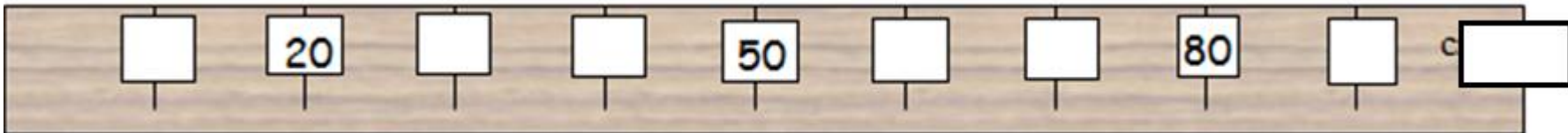


INTELLIGENT PRACTICE

Fill in the missing numbers on this 30 centimetre ruler.



Fill in the missing numbers on this 1 metre stick.



On the metre stick in chilli 2, draw an arrow to where 25 cm would be.



Draw an arrow to where 55 cm would be.

Where would 95 cm be?

Where would 89 cm be?

Where would 39 cm be?

Here are two metre sticks side by side.



Where would 150cm, 110cm and 190cm be?



Explain your reasoning in your maths book.

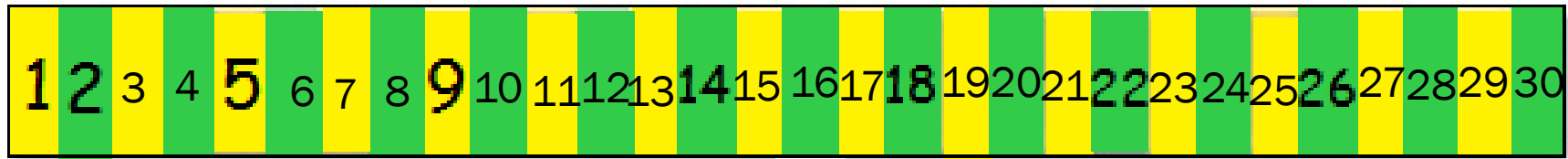
I know that _____ because _____.

3 BEFORE ME
Look at the scale.

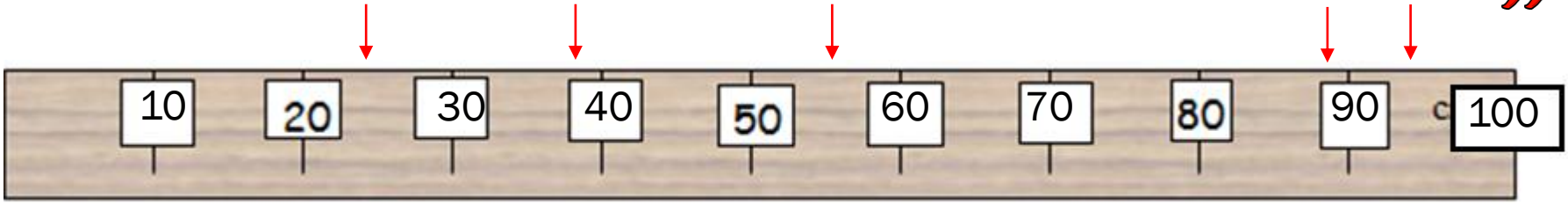


INTELLIGENT PRACTICE ANSWERS

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Here are two metre sticks side by side.

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Explain your reasoning in your maths book.

I know that _____ because _____.

3 BEFORE ME

Look at the scale.



DIVE DEEPER

1 What can a ruler or metre stick measure? Tick two.

- mass (weight)
- capacity (liquid)
- time
- length
- height
- money

2 On a ruler, what do we measure in? Tick your answer.

- centimetres (cm) / metres (m)
- grams (g) / kilograms (kg)
- millilitres (ml) / litres (l)
- seconds, minutes, hours

3 Alex tried to measure the length of a pencil. What did he do wrong?



Write an explanation in your maths book.

4 Finish the sentence.
One metre is the same as _____ centimetres (cm).

5 Circle the objects that would be greater than a metre in length.



bumblebee car hairbrush bed

6 Compare these lengths using the symbols < > =

56 cm 71 cm 45 cm 39 cm

7 A red crayon is 14 cm.
A blue crayon is 16 cm.
A green crayon is 15 cm.
How long are they altogether?



8 I had a piece of coloured paper that was 30 cm long. I ripped it in half.
How long is it now?

9 Max's hand is 25 cm long.
His little brother's hand is only 9 cm.
What is the difference?



1 metre 56 centimetres is the same as 156 cm.
2 metres 41 centimetres is the same as 241 cm.

Write your own examples.



DIVE DEEPER

1 What can a ruler or metre stick measure? Tick two.

- mass (weight)
- capacity (liquid)
- time
- length
- height
- money

2 On a ruler, what do we measure in? Tick your answer.

- centimetres (cm) / metres (m)
- grams (g) / kilograms (kg)
- millilitres (ml) / litres (l)
- seconds, minutes, hours

3 Alex tried to measure the length of a pencil. What did he do wrong? **He needs to start measuring from the 0.**



Write an explanation in your maths book.

4 Finish the sentence.
One metre is the same as **100** centimetres (cm).

5 Circle the objects that would be greater than a metre in length.



bumblebee car hairbrush bed

6 Compare these lengths using the symbols < > =

56 cm 71 cm 45 cm 39 cm

7 A red crayon is 14 cm.
A blue crayon is 16 cm.
A green crayon is 15 cm.
How long are they altogether?



45cm

8 I had a piece of coloured paper that was 30 cm long. I ripped it in half.
How long is it now?

15cm

9 Max's hand is 25 cm long.
His little brother's hand is only 9 cm.
What is the difference?



16cm

1 metre 56 centimetres is the same as 156cm.
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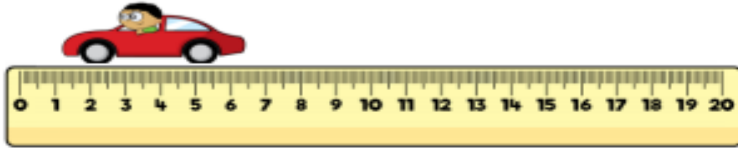
Write your own examples.



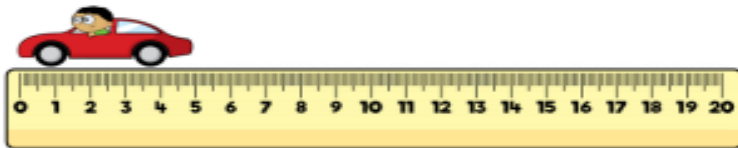
DIVE DEEPER 2

- 1 Three children measured the same toy car.

Eva says that the car is 6 cm and 5 mm



Dexter says the car is 5 cm



Annie says the car is 4 cm 5 mm



Who is correct?
Who is incorrect?
Explain why.

Vocabulary Help

... shorter than ...

... longer than ...

Zero line

Ruler

Measure

Centimetres

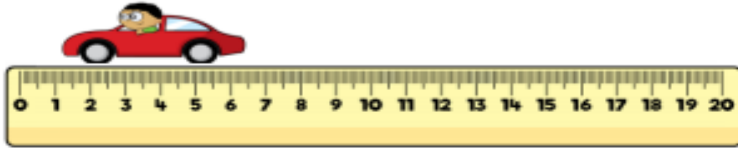
If Dexter lined up three cars, how long would the line of cars be?
Prove it to me!



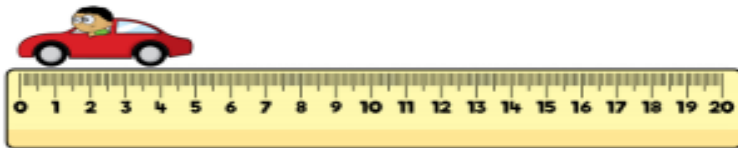
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Who is correct?
Who is incorrect?
Explain why.

Dexter is correct.
The other two children have not lined up the ruler correctly: Eva has started at 1 cm and 5 mm instead of 0 and Annie has started at the end of the ruler.

Vocabulary Help

... shorter than ...

... longer than ...

Zero line

Ruler

Measure

Centimetres

If Dexter lined up three cars, how long would the line of cars be?

Prove it to me!

$$5 + 5 + 5 = 15\text{cm}$$

