

Can I measure length?

Year 3 – Thursday 28 January 2021

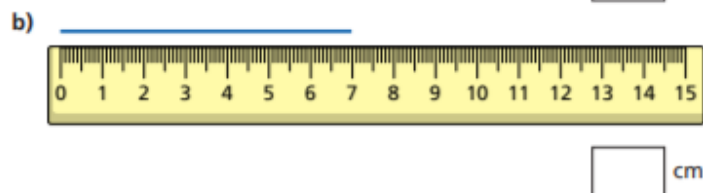
Watch the teaching video

<https://vimeo.com/503131096>

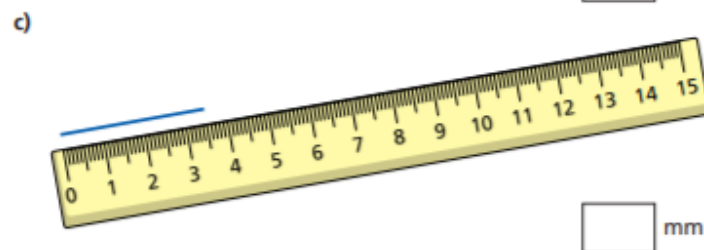
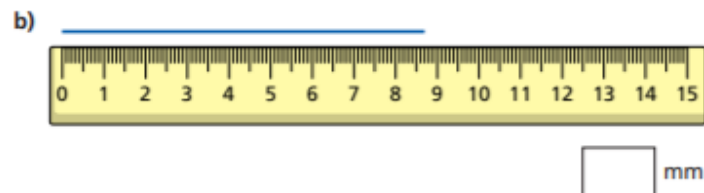
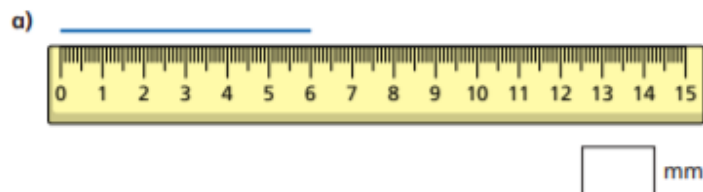
Now, complete the tasks on the next slides.

Measure length

1 What is the length of each line?



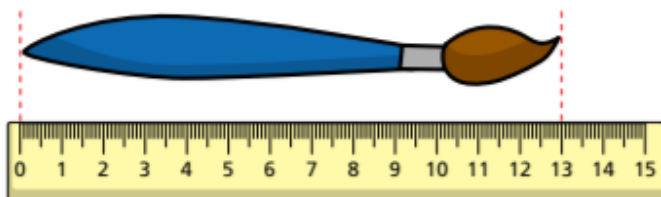
2 Write the length of each line to the nearest millimetre.



3 Use a ruler to draw lines of these lengths.

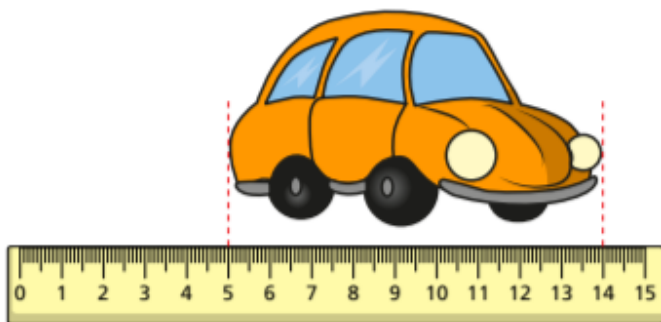


4 How long is the paintbrush?



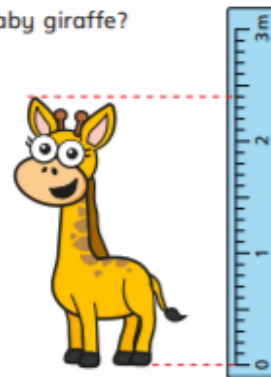
The paintbrush is cm long.

5 How long is the toy car?



The toy car is cm long.

6 How tall is the baby giraffe?



The baby giraffe is m and cm tall.

7 Tick the most sensible estimate for the height of a classroom door.

20 cm	2 m	20 m
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8 Find items in the classroom that are the following lengths.

Write your answers in the table.

Less than 10 cm long	Between 10 cm and 1 m long	More than 1 m tall
<input type="text"/>	<input type="text"/>	<input type="text"/>

Compare with a partner.



Lightbulb task – use an ACE answer

Answer Calculate Explain

True or False ?

Measure length

The length the of a pencil should be measured in metres.



ANSWER sheets

- Please check your answers using the answer sheets on the next slide.
- If you have made a mistake, can you explain what you did wrong and what you should have done instead?

How many ways?

1 Dora is making ice creams.

She has 4 flavours and 3 toppings.



Dora chooses a flavour and a topping.

a) Complete the table to show the different combinations she could make.

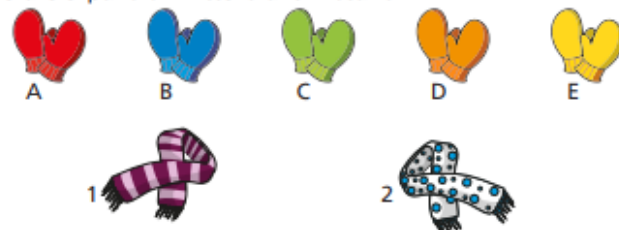
Ice cream flavour	Topping
chocolate	nuts
chocolate	choc chips
chocolate	sprinkles
vanilla	nuts
vanilla	choc chips
vanilla	sprinkles
mint	nuts
mint	choc chips
mint	sprinkles
strawberry	nuts
strawberry	choc chips
strawberry	sprinkles

b) How did you work out the different combinations?

How do you know you have found them all?



2 There are 5 pairs of mittens and 2 scarfs.



Amir chooses a pair of mittens and a scarf.

a) List all the possible different combinations.

Mittens	Scarfs
A	1
A	2
B	1
B	2
C	1
C	2
D	1
D	2
E	1
E	2

b) How many different combinations of mittens and scarfs are there?

10

c) Are you sure you have found them all?
Compare with a partner.

d) What multiplication works out the number of combinations?

$$5 \times 2 = 10$$



- 3 Whitney buys a snack and a drink.



chocolate



muffin



cookie



apple



juice



pop



milk



water

She says there are 8 combinations she could choose.

Do you agree? NO

Show how you know.

$$4 \times 4 = 16$$



- 4 Teddy has 5 pairs of trousers.

He also has 4 shirts.

Each day he wears a shirt and a pair of trousers.

- a) How many possible combinations does he have?

$$5 \times 4 = 20$$

- b) Teddy buys 2 more pairs of trousers.

How many possible combinations does he have now?

$$7 \times 4 = 28$$

- 5 Jack and Alex are choosing food from a menu.

Starter	Main	Dessert
Soup	Burger	Ice cream
Cheese	Pizza	Brownie
Bread	Roast chicken	Fruit salad
	Egg and chips	
	Salad	
	Pie	

Jack chooses a starter and a main.

How many different combinations are there?

18

Alex chooses a starter, main and dessert.

How many different combinations are there?

54

- 6 Rosie is making a birthday card.

She uses a sheet of coloured card and sticks a shape on it.

She has 5 different shapes she can choose from.

She can make 40 different birthday cards in total.

How many different sheets of card does Rosie have?

8



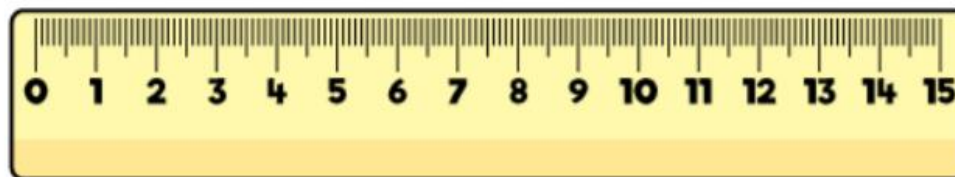
ACE answer lightbulb task

True or False ?

Measure length

False

The length of a pencil should be measured in centimetres or millimetres.



Answer

Explanation

Calculation