

# Monday Maths

L.O. To draw accurately



## Mathematical Talk

Where should we position the ruler when measuring each line?  
Why?

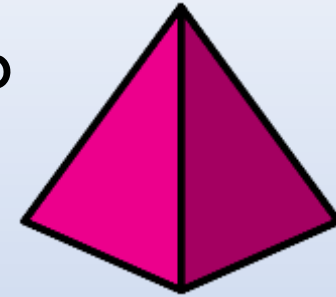
How long is each line in millimetres?

Why does 9 cm and 9 mm round to 10 cm and not 9 cm?  
Look at the ruler/number line to explain your answer.

Do we round 10 cm and 5 mm to 10 cm or 11 cm? Why?

## Flashback: How much can you remember?

- 1) How many horizontal lines are there in the flag?



- 2) Which is larger, a half turn or 3 right angles?

- 3) Write the time using the 24-hour clock.



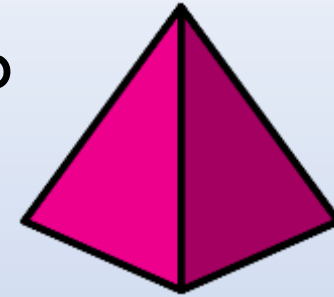
- 4) How much change will I have from £1 if I buy three buns at 25p each?

## Flashback: Answers

1) How many horizontal lines are there in the flag?



6 horizontal lines



2) Which is larger, a half turn or 3 right angles? 3 right angles

3) Write the time using the 24-hour clock.



19:00

4) How much change will I have from  
£1 if I buy three buns at 25p each?

25p

## Learn:

Watch this video to give you a good understanding about drawing straight lines.

<https://vimeo.com/432264831>

Children should measure and draw straight lines accurately in centimeters and millimeters. They should also practice rounding measurements to the nearest centimeter.





For example anything above 5mm rounds up to the next cm. Everything below 5mm gets rounded down.

9cm 5mm would be rounded up to 10cm.

Make sure the children correctly position the ruler when measuring/drawing the line, by lining up the 0 with the start of the line

# Your Task:

1. Measure these lines to the nearest mm. Which line is the odd one out?

A	
B	
C	
D	

2. All the lines below have been ordered from shortest to longest. Draw lines B and D. to complete them and then write the measurements for all the lines in the boxes.

A



cm mm

B



cm mm

C



cm mm

D



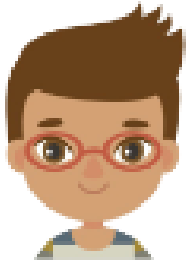
cm mm

E



cm mm

3. Jack has been measuring some lines. Is he correct? Explain how you know.



All of my lines are longer than 3cm 5mm but shorter than 7cm 5mm.



## Challenge:

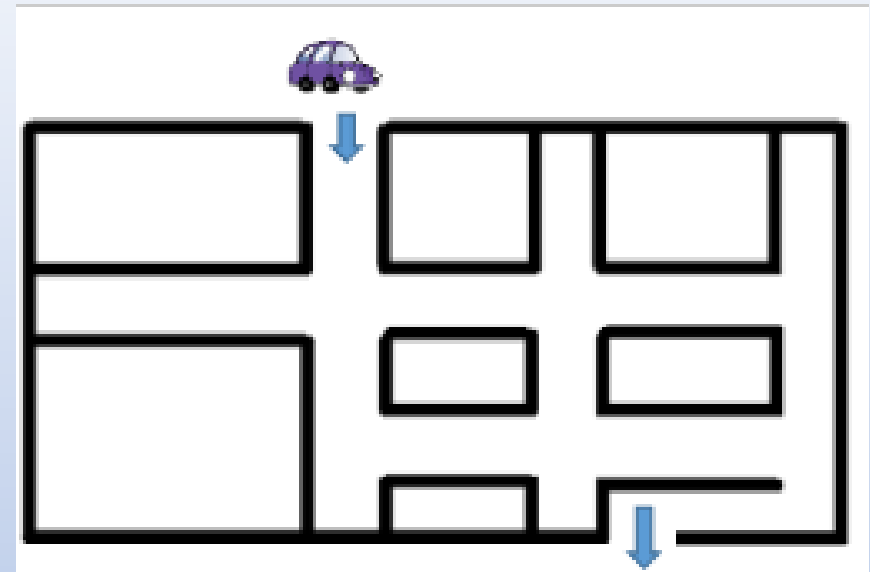
Alex measures the line.



She says it is 10 cm 4 mm

Is Alex correct?

Explain why.



Use straight lines to show the route the car could take to get out of the maze.

Work out the length of the route to the nearest cm

Is this the shortest route?

## Challenge **Answers:**

Alex is not correct because she has started measuring the line from the end of the ruler instead of from '0'

Possible answer:



The length of the route will depend on the size of the maze used.