

Diving into Mastery



# Draw Accurately



# Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



**Diving**



**Deeper**



**Deepest**

These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

# Aim

- Draw 2D shapes and make 3D shapes using modelling materials;  
Recognise 3D shapes in different orientations and describe them.

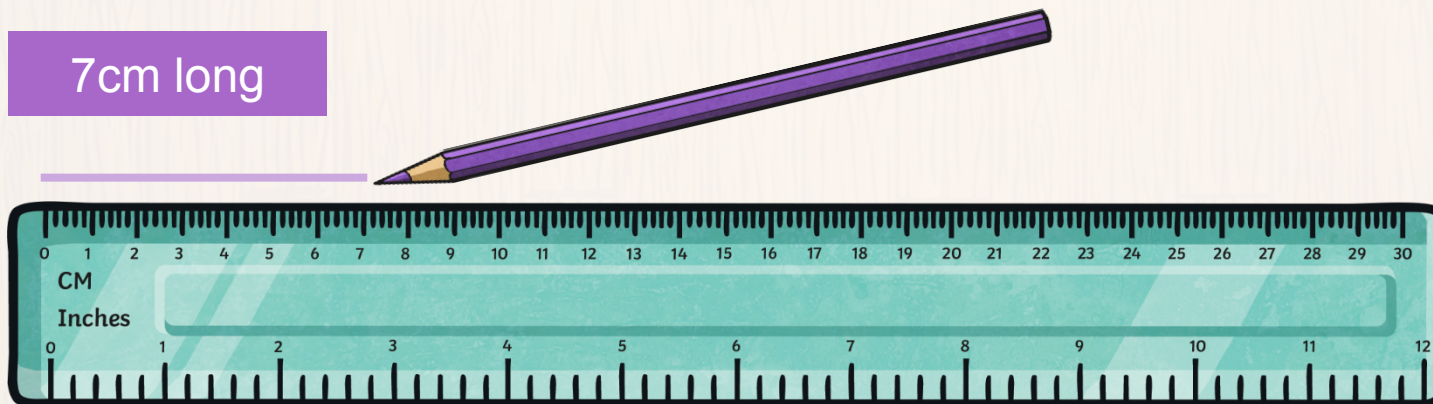
## Draw Accurately

## Diving

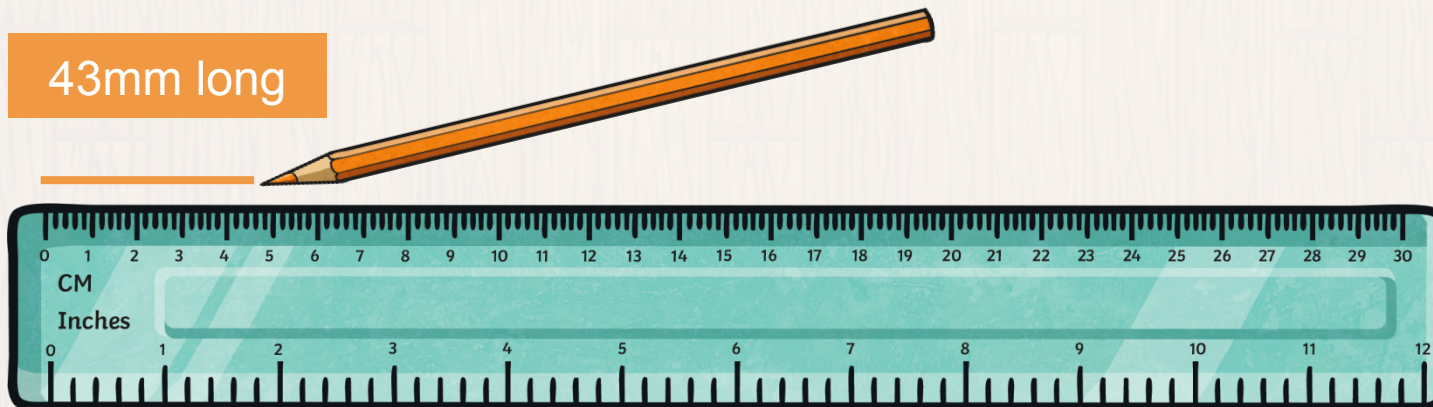


Use a ruler to draw a line which is:

7cm long



43mm long



## Draw Accurately

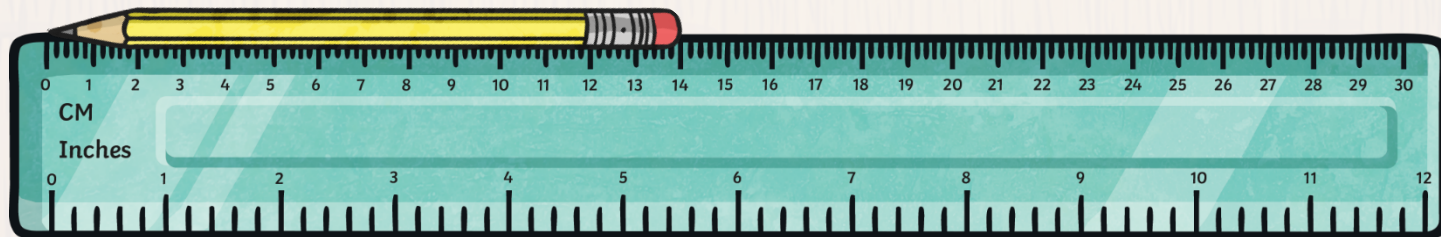
## Diving



Use a ruler to accurately measure your pencil **to the nearest cm**.

Check your partner's measuring to see if you agree.

Remember to line up the end of your pencil with 0cm on the ruler.





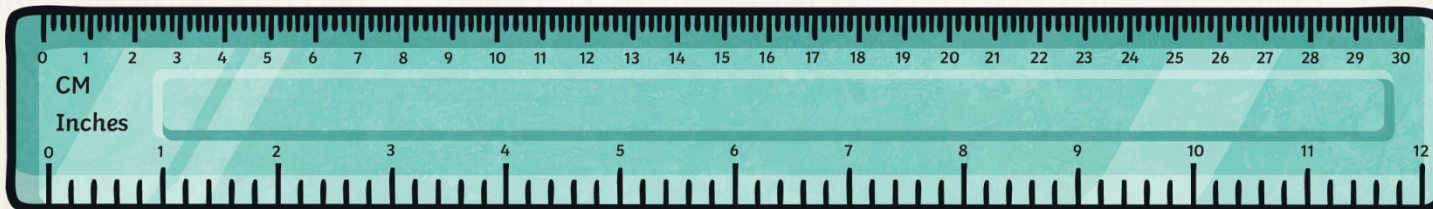
Aleesha and Kieran measure the same line.

What has each done wrong?

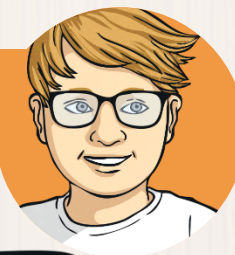


Aleesha

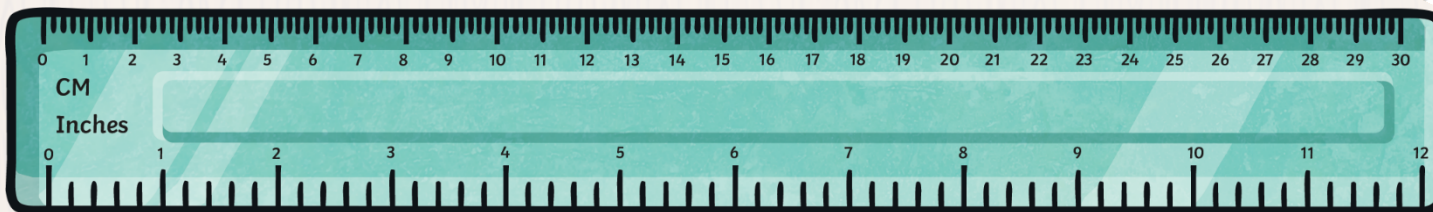
“The line is 22cm long.”



Kieran



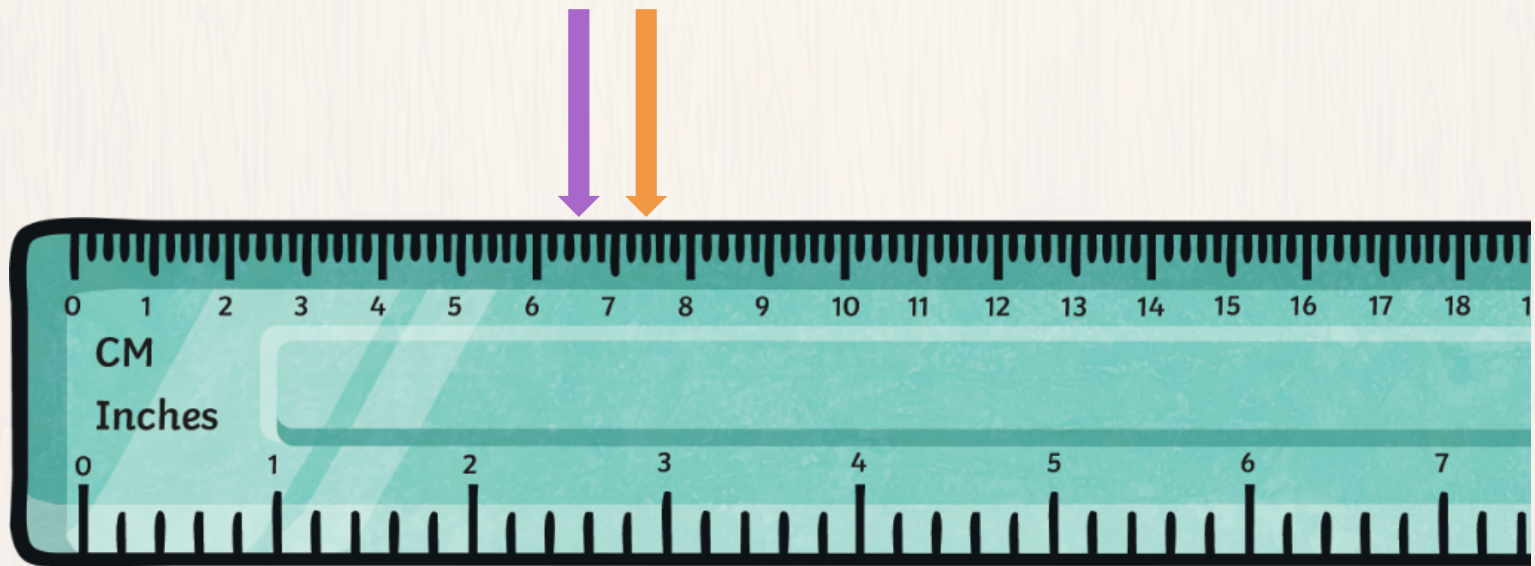
“The line is 6.7cm long.”





What size lines could be rounded to 7cm as the nearest cm?

Any line between 6.5cm (65mm) and 7.4cm (74mm)

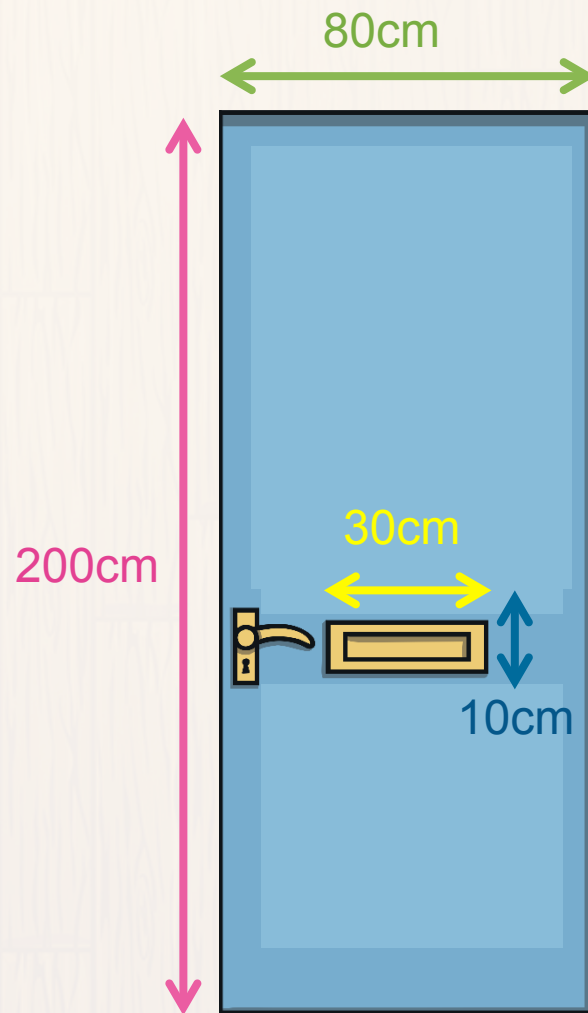




This door is drawn using straight lines.

What do the lines equal when added together?

640cm or 6.4m





Draw a line longer than 7cm.  
Compare it to the people around you.

Have you all drawn the same length line?

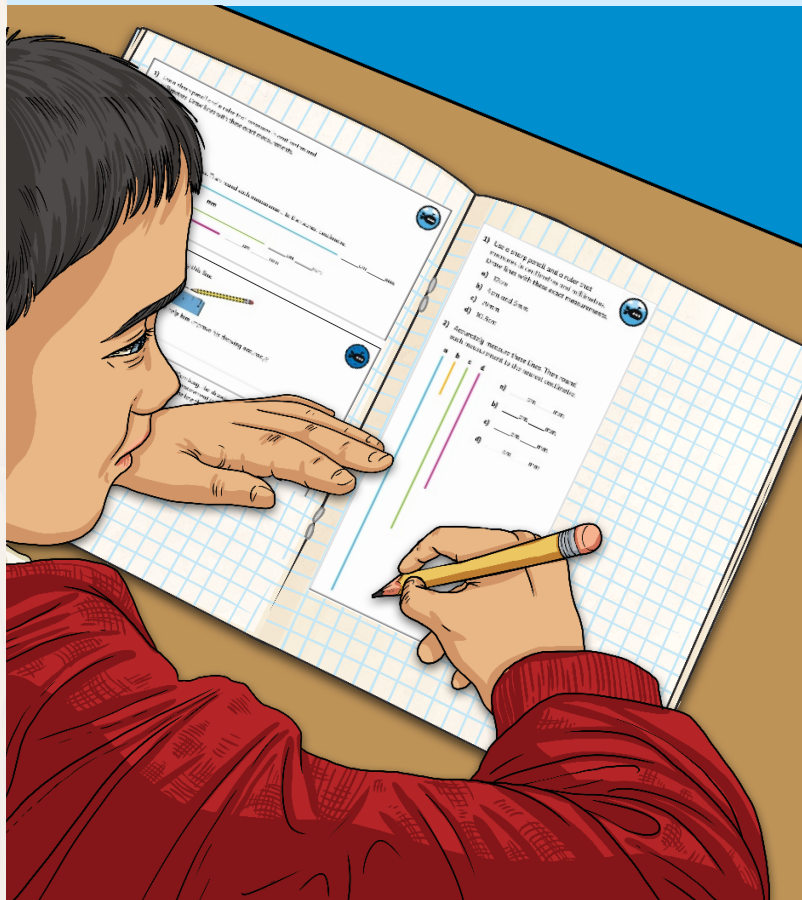


Now draw a  
line between 8cm  
and 10cm long.

Have you all drawn the  
same length line?

# Draw Accurately

Dive in by completing your own activity!



1) Use a sharp pencil and a ruler that measures in centimetres and millimetres. Draw lines with these exact measurements.

- 12cm
- 4cm and 5mm
- 79mm
- 10.5cm

2) Accurately measure these lines.

- 
- 
- 
- 

3) Look at the picture of Maurice

What advice would you give to Maurice?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4) Emily's teacher asks her to draw a line that is 10.5cm long, but the teacher has added this to the worksheet. Draw the line.

1) Use a sharp pencil and a ruler that measures in centimetres and millimetres. Draw lines with these exact measurements.

- 12cm
- 4cm and 5mm
- 79mm
- 10.5cm

2) Accurately measure these lines. Then round each measurement to the nearest centimetre.

a	b	c	d	a) _____mm
				b) _____mm
				c) _____mm
				d) _____mm

# Need Planning to Complement this Resource?

National Curriculum Aim

**Draw 2D shapes and make 3D shapes using modelling materials; Recognise 3D shapes in different orientations and describe them**

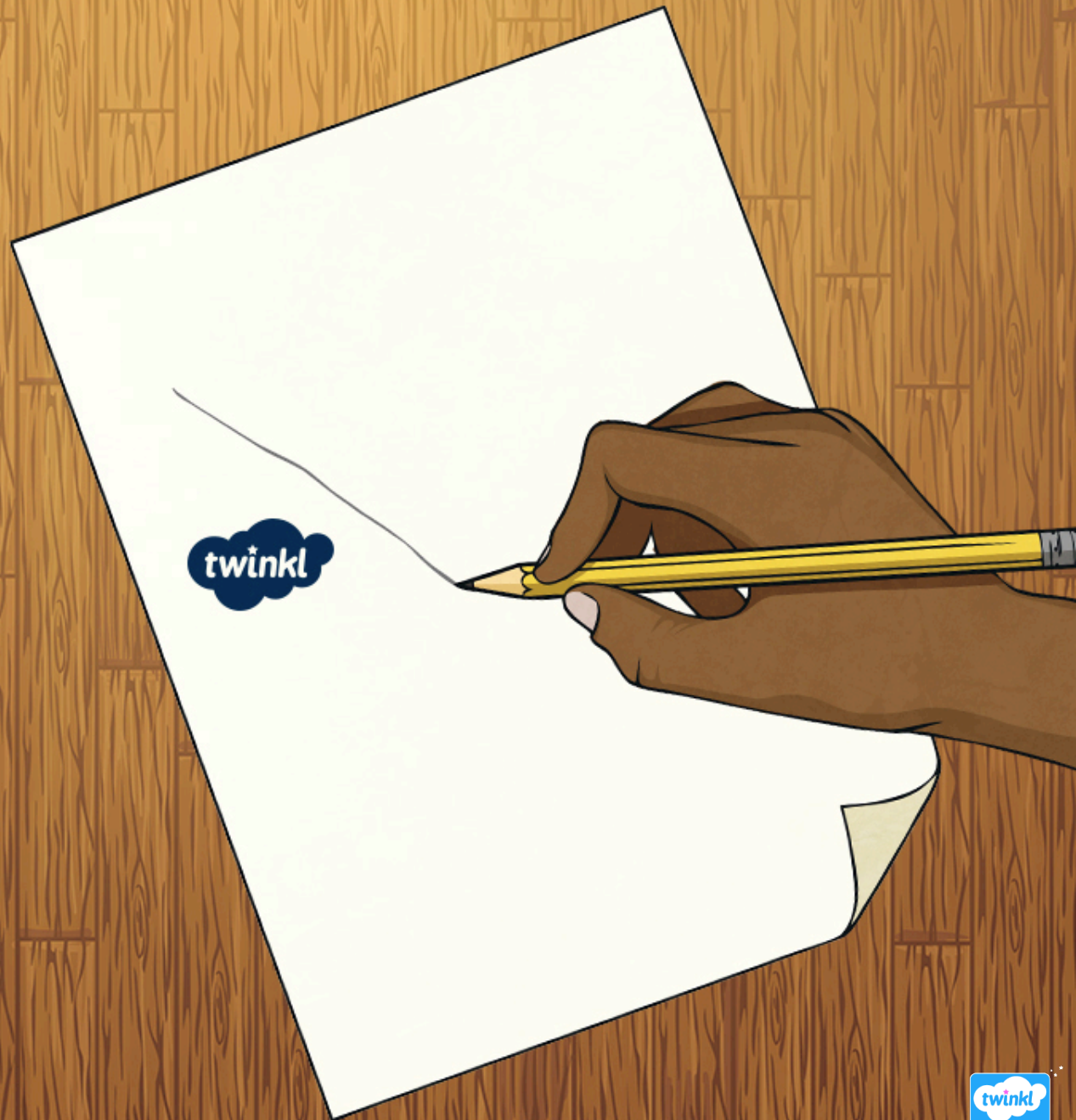
For more planning resources to support this aim, [click here](#).

The screenshot shows several interactive resources from Twinkl PlanIt. At the top, there are three panels: 'Shape Sort' with a character moving shapes, 'Describing 2D Shapes' with a boat illustration, and 'Secret Shapes' with various colored polygons. Below these are 'Properties of Shapes: Describing 2D Shapes' and 'Drawing 2D Shapes' worksheets. A blue banner at the bottom left says 'Updated Mastery Content'. The Twinkl PlanIt logo is in the bottom right corner.

The screenshot shows a 'Shape Hunt' worksheet. It has a title 'Shape Hunt' and instructions: 'Draw and name any 3D shapes that you see in your local environment in the boxes below. Here are a few to get you started.' Below the instructions is a grid of boxes. The first row has two boxes with illustrations: a 'Tissue Box' (Cuboid) and a 'Ball' (Sphere). To the right of the grid are columns for recording 'faces', 'edges', and 'vertices' for each shape. The Twinkl PlanIt logo is in the bottom right corner.

Twinkl PlanIt is our award-winning scheme of work with over 4000 resources.





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