Lornshill Academy





51 Science

Unit 1: Measure up

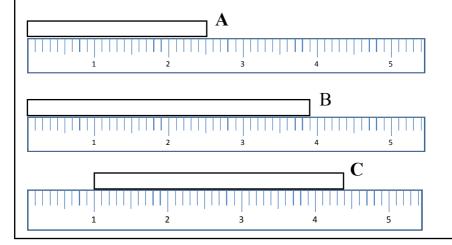
Homework Questions





Book No.	
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- 1. Write down the following:
 - (a) 3 safety rules about **safe working** in the lab.
 - (b) 2 safety rules to do with **movement** around the lab.
 - (c) 1 safety rule about eating or drinking in the lab.
- 2. (a) **Describe** what you would do if you found a broken glass beaker in the sink.
 - (b) **Explain why** it is important to deal with this situation.
- 3. (a) **List** three different instruments for measuring length.
 - (b) Give two situations where you would use each of them
- 4. Use the ruler below to answer the following questions -
 - (a) The numbers on the rulers show centimetres (cm.) What is the name for the **smaller** measurements between the numbers?
 - (b) Write down the lengths of the blocks A, B and C



5. Copy and complete the following table -

What to measure	Measurement	Units
Length of jotter		
Length of right thumb		
Length of phone		
Height of bedroom door		
Width of toilet roll		

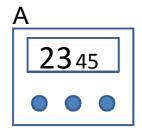
6. **Find out** the world record for the men's and women's javelin.

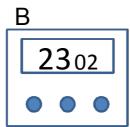
Record these in your jotter.

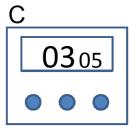
7. **Convert** the following measurements by **copying** and **completing** the statements -

- 8. **Write down** three jobs which would need you to able to weigh things accurately.
- 9. **Describe** how you would **weigh** the **liquid** in a small bottle of Irn Bru.
- 10. **Describe** in a sentence what is meant by the term 'the volume of a liquid'.
- 11. **Name** three different kinds of containers which can be used to measure the volume of a liquid.
- 12. 'To make bread dough, you mix 500g of flour, 250 g of butter and 50ml of warm water.'
 - **Write down** which of the measurements in the recipe is a measure of volume.
- 13. You are supplied with a bath, a pencil, a kitchen measuring jug and a friend.
 - **Describe** how you could measure your friend's volume.
- 14. **List** three jobs which need you to be able to measure time accurately.
 - **Explain** why measuring time is important in each job.
- 15. List three sports which involve the measurement of time.

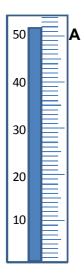
16. **Write down** the times shown on the three laboratory timers below -

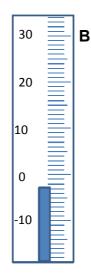


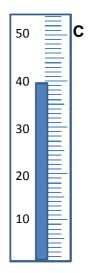




17. **Write down** the readings on the three thermometers shown below -







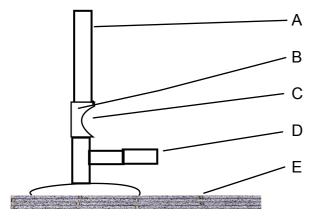
18. The reading on the **first** thermometer above shows the temperature of Jo's bath when she ran it.

The reading on the **third** thermometer was the temperature when she got out.

Calculate how much the temperature had dropped while she was in the bath.

19.		d out the missing temperatures to complete the tences below.	
	Copy the complete the sentences into your jotter to show your answers -		
	(a)	A fridge should be kept at°C, or the food will	
	(b)	The hottest temperature my oven goes to is °C.	
	(c)	Roads are likely to be icy if the temperature falls below °C.	
	(d)	The temperature yesterday was °C during the day.	
	(e)	Normal body temperature is °C	
20.	O. List 3 jobs where keeping any eye on temperatures is important. Explain the importance of temperature to each job.		

21. **List** the names of the parts of the Bunsen burner labelled below -



22. **Describe** how you light a Bunsen burner.

Your description should include -

- · Safety equipment
- · How to adjust the air hole
- How to adjust the gas tap
- The colour of the flame when the Bunsen burner lights

23. **Explain** the importance of **observing change** in the following situations -

A policeman using a breathalyser.

A **metal detector** starting to make a whistling noise.

A sailor watching the colour of clouds.

A cook watching an egg timer.