

Circle the letter that correctly corresponds to each statement.

1	The symbol for the SI unit of time is						
	a) min	b) s	c) hr	d) sec			
2	How many significant figures are there in the number 760?						
	a) 1	b) 2	c) 3	d) 4			
3	Which of the following is a qualitative change?						
	a) The mass changed from 13.95 g to 12.46 g.						
	b) The time taken for the experiment to finish was 29 s.						
	c) The colour of the reaction mixture changed from blue to red						
	d) The volume of gas produced was 57 cm ³ .						
4	What do we mean when we refer to the mass of an object? a) How hot it is.						
	b) The amount of space it takes up.						
	c) The amount of particles in it.						
	d) The distance from one point to another.						

5 Identify the laboratory equipment shown in Fig 1.1.



FIG 1.1

a) Beaker

b) Test tube

c) Measuring cylinder

d) Cylinder flask

Working like a chemist (cont.) 1 6 The laboratory equipment identified in Q5 may be used to measure: a) Mass b) Depth c) Volume d) Area The scientific notation for the prefix 'mega' is: 7 **a)** 10³ **b)** 10⁶ **c)** 10⁻⁶ **d)** 10⁻³ 8 The SI unit of temperature is represented as: a) °C c) °F **b)** K **d)** C 9 Fig 1.2 shows part of a measuring cylinder. How much liquid is in the measuring cylinder? 40 30 FIG 1.2 **a)** 40 cm³ **b)** 39 cm³ **c)** 41 cm³ d) 30.9 cm³

10 The scientific notation for the prefix 'milli' is:

a) 10^3 b) 10^6 c) 10^{-6} d) 10^{-3}

[Questions 1 to 10: 10 marks]

11

Complete the table below by filling in the blank sections.

Quantity	SI unit	Instrument used
		Balance
Volume		
	°C	

[6 marks]

12	Convert the following measur	ements to the unit indicated.		
	a) 35 cm = m			
	b) 14 m = km			
	c) 67 mm = m			
	d) 20 cm = km			
			[4 marks]	
13	a) What is meant by the term	'physical quantity'?		
			[1 mark]	
	b) Identify THREE physical qua	ntities and their SI unit of measurement.		
	i.			
	II			
	III		[6 marks]	
14 State the equivalent measurements of the units given.				
	a) 1000 g = kg			
	b) 1 m ³ = dm ³			
	c) 37°C = K			
	d) 1 dm ³ = l			
	e) 1 mg = g			

[5 marks]

1

15 Your teacher asked you to examine the measuring cylinders and thermometers shown in Fig 1.3. Give your teacher the full and correct measurement on each instrument.



[4 marks]