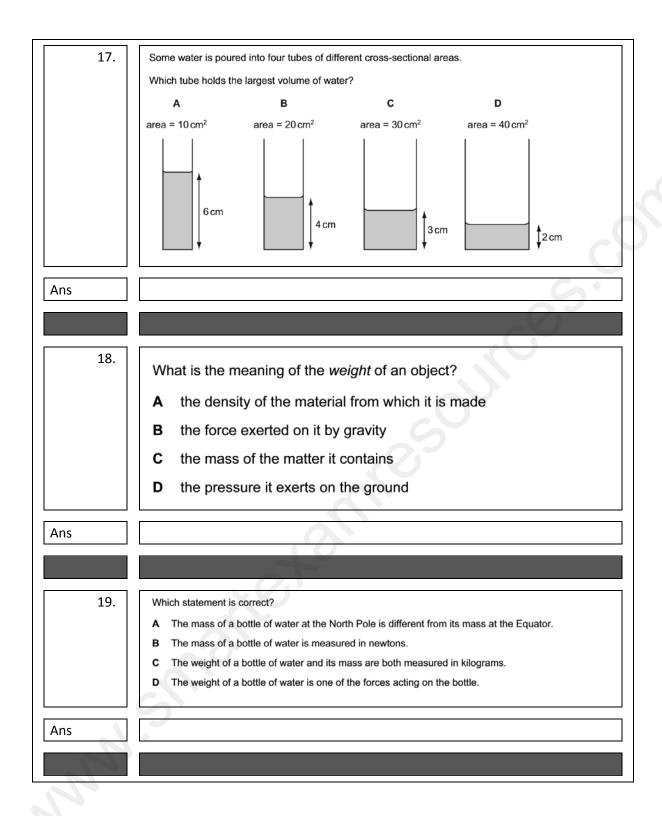


	A glass tank contains some water
14.	A glass tank contains some water. water Q T S
	The length QR and the width RS of the tank are known.
	What other distance needs to be known in order to be able to calculate the volume of the water?
	A ST B SV C TU D TV
Ans	
15.	Which is the unit for force and which is the unit for weight?
	force weight
	A kg kg
	B kg N
	C N kg
	D N N
Ans	
16.	The table gives information about a liquid in a container.
	depth of liquid 10 cm
	mass of liquid 30 g
	temperature of liquid 25 °C
	volume of liquid 20 cm ³
	What is the density of the liquid?
	A 0.33 cm/g B 1.2 g/°C C 1.5 g/cm ³ D 3.0 g/cm
Ans	
Ans	



20.

Which substance in the table has the lowest density?

	substance	mass/g	volume/cm ³
Α	nylon	1.2	1.0
В	cotton	1.5	1.0
С	olive oil	1.8	2.0
D	water	2.0	2.0

Ana

21.

Which row shows the unit for force, the unit for mass and the unit for weight?

	force	mass	weight
Α	kg	kg	N
В	kg	N	kg
С	N	kg	N
D	N	N	kg

Ans

22.

The table gives the volumes and masses of four objects.

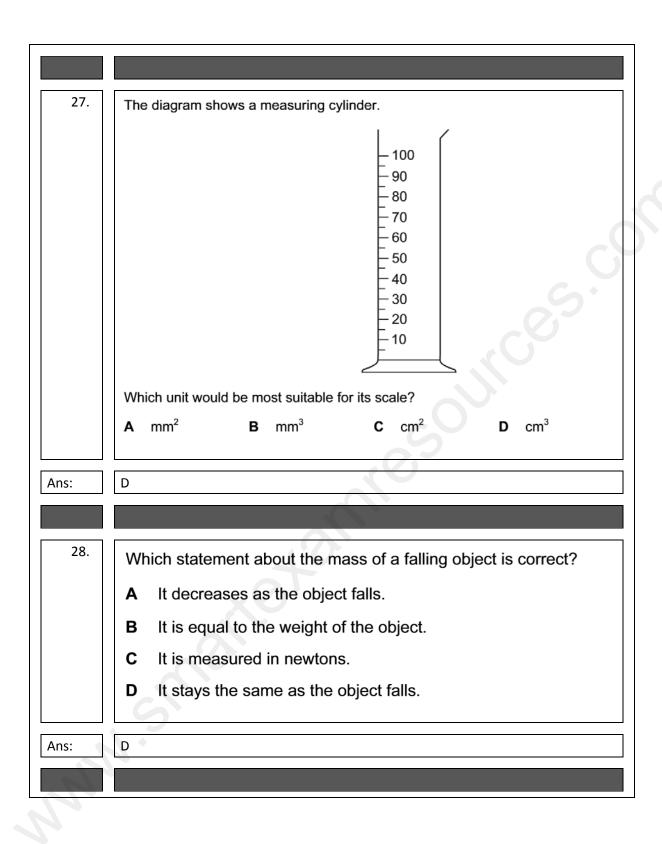
Which object has the greatest density?

	mass/g	volume/cm ³
Α	5.4	2.0
В	13	3.0
С	15	6.0
D	18	5.0

Ans

23. Which conditions are necessary for an object to have weight? must be in a must be in an must have mass gravitational field electric field Α no no yes В no yes yes С yes yes no D yes yes no Ans 24. A rectangular metal block has the dimensions shown. The density of the metal is 8.0 g/cm³. 4.0 cm 10.0 cm What is the mass of the metal block? **A** 160 g **B** 320 g C 400g **D** 1600 g Ans 25. The diagram shows two cubes P and Q. The lengths of their sides and their masses are given. 20 cm 10 cm mass = 2000 g mass = 16 000 g cube P cube Q What is the density of the material of cube Q? half that of cube P the same as that of cube P twice that of cube P four times that of cube P Ans

26.	A shop-keeper places two identical blocks of cheese on a set of scales and notices that their combined mass is 240g. Each block measures 2.0 cm × 5.0 cm × 10.0 cm. What is the density of the cheese?
	A 0.42g/cm ³ B 0.83g/cm ³ C 1.2g/cm ³ D 2.4g/cm ³
Ans	



29.	Which of the following is a unit of density?
	A cm ³ /g
	B g/cm ²
	C g/cm ³
	D kg/m ²
	J. Ng
Ans:	С
30.	Which statement is correct?
	A The mass of a bottle of water at the North Pole is different from its mass at the Equator.
	B The mass of a bottle of water is measured in newtons.
	C The weight of a bottle of water and its mass are the same thing.
	D The weight of a bottle of water is one of the forces acting on it.
Ans:	D
31.	A decorator wishes to calculate the area of a bathroom tile so that he can estimate the amount of
	adhesive which he needs to buy.
	What must he use?
	A a measuring cylinder only
	B a ruler only C a measuring cylinder and a clock only
	D a measuring cylinder and a clock only
Ans:	В
22	
32.	A person measures the length, width, height and mass of a rectangular metal block.
	Which of these measurements are needed in order to calculate the density of the metal?
	A mass only
	B height and mass only
	C length, width and height only
	D length, width, height and mass
Ans:	D