<u>Physical Quantities – 2019 Nov IGCSE</u>

1. 0625/31/O/N/19/No.1

Fig. 1.1 shows a plastic water barrel. The barrel is full of water.

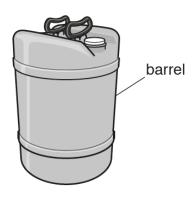


Fig. 1.1

(a)	The water barrel contains 0.050 m ³ of pure water. The density of pure water is 1000 kg/m ³
	Calculate the mass of pure water in the barrel.
	Call
	mass of water =kg

=kg [3]	mass of water	
	The density of sea water is 1030kg/m³. The density information and the information in (a) to state and sea water. statement	(b)
	explanation	
[2]		

[Total: 5]

2. 0625/32/O/N/19/No.2

(a) A student has an irregularly shaped piece of metal, a beaker of water and a measuring cylinder, as shown in Fig. 2.1.

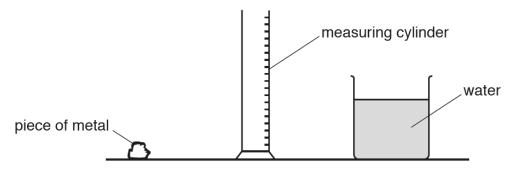


Fig. 2.1

		ecribe how the student can accurately determine the volume of the piece of metal us equipment provided.	sing
		. 699	
			[4]
(b)	The	student measures the mass of the piece of metal. Its mass is 146 g.	
	(i)	State the name of the instrument used to measure the mass.	[1]
	(ii)	The volume of the piece of metal is 20 cm ³ . Calculate the density of the metal. State the unit.	

[Total: 9]