10	(a)	A box is a cuboid with length 45 cm, width 30 cm and height 42 cm. The box is completely filled with 90.72 kg of sand.	
		Calculate the density of this sand in kg/m^3 . [Density = mass \div volume]	
			kg/m^3 [3]
	(b)	A bag contains 15000 cm ³ of sand. Some of this sand is used to completely fill a hole in the shape of a cylinder. The hole is 30 cm deep and has radius 10 cm.	
		Calculate the percentage of the sand from the bag that is used.	
			% [3]
	(c)	Sand costs \$98.90 per tonne. This cost includes a tax of 15%.	
		Calculate the amount of tax paid per tonne of sand.	
		\$	[3]
	(d)		
		Calculate the cost in dollars when the exchange rate is $$1 = 70.8$ rupees.	
		\$	[2]

© UCLES 2021 0580/42/F/M/21