Money – 2021 O Level Math D

1. Nov/2021/Paper_21/No.1

(a)	In October, Sara is charged \$84.25 for water. A tax of 8% is added to this amount.						
	Calo	culate the total	l amount Sara	a is charged for water	er in October includ	ling tax.	
					\$		[2]
(b)				Sara is charged for heach day plus an an	_		
				Cost for one day	Cost for one unit		
			Gas	23 cents	4.3 cents		
			Electricity	28 cents	16 cents		
	(i)	Sara uses a to	otal of 960 ur	nits of gas in the 30	days of November.		
	``			t, in dollars, Sara is		November	
		Carculate inc	total amoun	i, ii donars, sara is	charged for gas in i	tovenioei.	
				00			
			10	9,	\$		[2]
	(ii)	Sara is charg	ed a total of S	\$30.80 for electricit	y in the 30 days of 1	November.	
		Calculate the	number of u	nits of electricity sh	e used.		
						,	unite [3]
						ι	лию [3]

(c) The amount of electricity generated is measured in Gigawatt hours (GWh).

The table shows information about the amount of electricity generated in different countries.

Country	Electricity generated in 2010 (GWh)	Electricity generated in 2016 (GWh)	
Australia	2.37×10^{5}	2.43×10^{5}	
Japan	1.09×10^{6}	1.03×10^{6}	
Spain	2.91×10^{5}	2.64×10^{5}	
Turkey	2.03×10^{5}	2.62×10^{5}	

(i)	Calculate how much more electricity was generated in Japan than in Australia in 2016
	Give your answer in standard form.

...... GWh [1]

(ii) Calculate the percentage increase in electricity generated in Turkey from 2010 to 2016.

.....% [2]

(iii) There was a 4% decrease in the amount of electricity generated in Spain from 2013 to 2016.Calculate the amount of electricity generated in Spain in 2013.



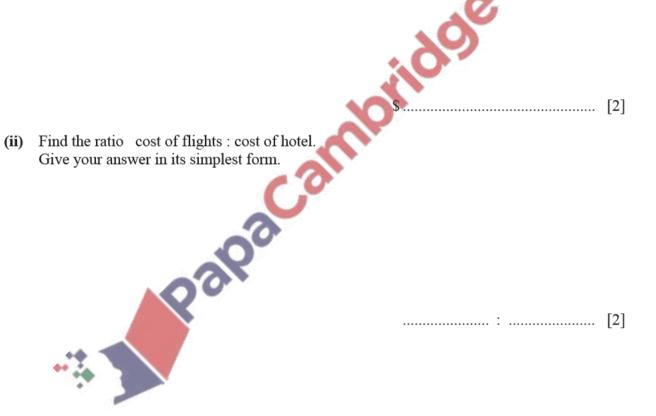
2. Nov/2021/Paper_22/No.1

(a) Jasmine buys a family holiday to India. Here is some information about the cost.

Flights	\$700	
Hotel	\$1550	
Total cost	\$2250	

(i) In October, Jasmine pays a deposit of 12% of the total cost. She pays the rest of the total cost in December.

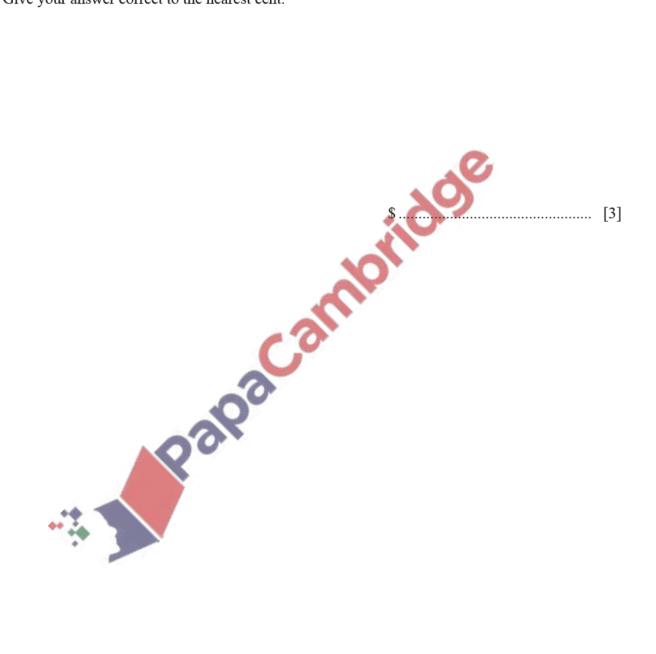
Calculate the amount she pays in December.



(b) Jasmine changes \$350 into rupees. The exchange rate is \$1 = 71.6 rupees.

> On holiday, she spends 19 500 rupees. She changes the rest back to dollars at the same exchange rate.

Calculate the amount of money she receives. Give your answer correct to the nearest cent.



(c) The table shows the number of tourists and the total tourist spending for some countries in 2016.

Country	Number of tourists	Total spending in dollars	
China	5.93×10 ⁷	4.44×10^{10}	
India	1.46×10^{7}	2.31×10^{10}	
Kenya	1.27×10^{6}	1.62×10 ⁹	
Madagascar	2.93×10^{5}	9.13×10 ⁵	

(i) Calculate how many more tourists visited India than Kenya in 2016. Give your answer in standard form.

.....[1]

(ii) Calculate the average amount spent per tourist in China in 2016. Give your answer correct to the nearest dollar.

\$.....[2]

(iii) From 2014 to 2016, the total amount spent by tourists in Madagascar increased by 23.5%.

Calculate the amount spent by tourists in Madagascar in 2014.

\$.....[2]

3. June/2021/Paper_11/No.12

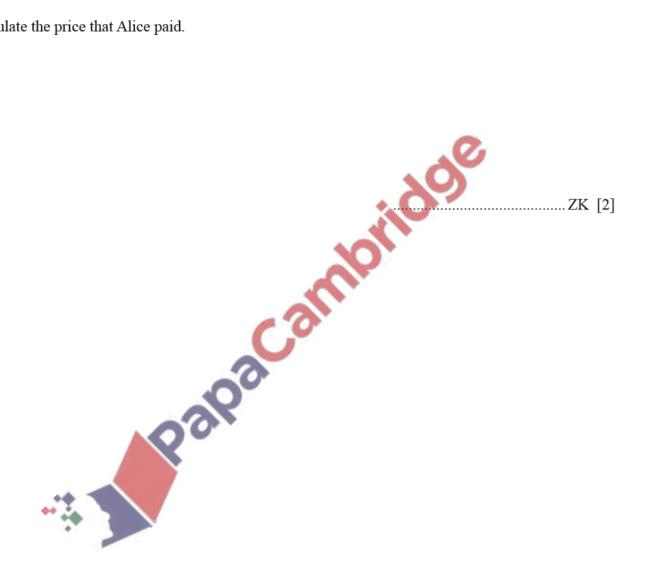
Bernard bought a game in the USA for \$15.

Alice bought the same game in Zambia and paid the equivalent price in Zambian kwacha (ZK).

Exchange Rate

1ZK = \$0.075

Calculate the price that Alice paid.



4. June/2021/Paper_22/No.1c

(c)

ACE SIMPLE

Simple interest at 2.1% per year

COOL COMPOUND

Compound interest at 2% per year

Pietro invests \$3500 in the Ace Simple account for 4 years. Eliana invests \$3500 in the Cool Compound account for 4 years.

At the end of the 4 years, who has more money in their account and by how much?

