fs4u

Maths Level 1

Test your skills

Sections 1–3 Planning a holiday

Applying skills in:

- whole numbers
- · fractions, decimals and percentages
 - ratio, proportion, formulae

Answer all questions in this task.

Write your answers in the spaces provided.



Where you see this sign you must show clearly how you get your answers as marks may be awarded for your working out.

You may use a calculator.

Here is part of a brochure for holidays in Ibiza, Spain. Use the information to answer the questions.



1	Four friends are planning a two-week holiday in Ibiza. They can share a room.				
	a) What is the 'Full Board' room cost for all four at The Oasis?				
[***]					
	Full Board cost £				
	b) What is the 'Full Board' room cost for all four at Club Vista?				
[***]					
	Full Board cost £				

2	'Half Board' means you have to find your own mid-day meal.					
	How much cheaper is the room at The <i>Oasis</i> for one person if you choose 'Half Board'?					
•••			£			
3	The breekure gives prices to belo	you plan holiday costs:				
3	The brochure gives prices to help	you plan holiday costs:				
	Typical costs of	food and drink in Ibiza				
	Chicken or steak					
	Hamburger or pi	zza £2.50				
	French fries	£1.00				
	Dessert	£1.20				
	Coffee or tea	55 pence 65 pence				
	Canned drinks	05 perice				
	a) Calculate the cost for steak,	fries, dessert and coffee.	Round the cost of this			
	mid-day meal to the nearest					
		Cost of mid-day me	eal £			
	b) The group plan to be in Ibiza for 14 days. Use your answer to a) above to estimate the cost of 14 mid-day meals. Which would be the cheaper option at The Oasis – Half Board or Full Board? How much cheaper?					
	Cheaper option [k	y £			
3						

•	The group ha	ve to cho	oose their h	notel.					
	a) If they de they choo		ply on the	basis c	of the ch	eap	est optior	n, which	option w
[*	**								
_	_								
							Hotel		
	b) What is th	e differe	nce betwee	en the c	heapest			t expen	sive optior
	•				-			-	-
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L									
					,	J:11-			
					l	Jitte	rence £		
	Now they hav			_					
	They look on to part of what the		net for fligh	ts on th	e days t	hey	need. He	re is	
	Brian-Air								
	OUTWARD	06:00	£64	10:00	£96				
	RETURN	09:30	£80	14:45 . 1	£		1,		
	The later Bria a) What is t								
	simplest t		or the ora	un to u	ie io ai		igiit cost:	LAPIG	55 IL III
							Ratio		:
	b) What is 1/	5 — as	a percenta	ıge?					
								0/	
								•	centage
			ard + retur	_					ent card,
	c) What is th		this price. ⁻ this flight p		-	ave s	student ca	มเนร.	
						£			Total cos

	d) What is the price for the cheapest flight cost there and back per person, from what you have worked out so far?					
[,,]						
	Cheapest flight £					
	-	When they look more closely, they find that Brian-Air will charge £20 each way per person for baggage.				
	e) Which is the chemuch cheaper?	eaper option	per person r	now, Brian-Ai	r or Luxi-Air? How	
["						
	Chea	per option		by s	£	
	f) What is the lowes	st possible ho	oliday cost so	far, for each	person?	
[•••]						
				Lowest cost	£	
6	The holiday company	offer travel in	surance The t	ahle shows the	a cost of travel	
	insurance according to					
	Number of nights	Age 2–15	Age 16–64	Age 65+		
	Up to 9	£12	£16	£35		
	Up to 17	£15	£20	£48		
	Up to 23	£28	£39	£89		
	The group are all ag	ed 17.				
	a) What is the total	cost of the h	oliday for the	whole group?	?	
			01-1	in a compare a self-o	j	
I	Cost of insurance £					

	b) What is the total cost of the holiday for the whole group?
	Total cost of holiday £
7	The cost of a holiday can be worked out using the formula below:
	Cost of holiday per person =
	cost of hotel per night · number of nights + cost of flights
	If a hotel costs £40 per night per person, use the flight costs you chose earlier to work out the cost of a week's holiday for one person aged 22.
[***]	
	0
	Cost per person £

•

Solutions

1a)	From the table, the cost per person is £440. £440 · 4 = £1760	£1760
1b)	In the same way, £484.50 · 4 = £1938	£1938
2	From the table, £440 – £335 = £105	£105
3a)	From the table, $cost = £6.00 + £1.00 + £1.20 + £0.55 = £8.75$. Round up.	£9
3b)	Full Board = £440. From Q2 and Q3a, Half Board + meals = £335 + (£9 · 14) = £335 + £126 = £461. So Full Board is cheaper: £461 – £440 = £21	Full Board £21
4a)	Oasis Half Board + meals = £461. Oasis Full Board = £440. Vista Full Board = £484.50	Oasis Full Board
4b)	£484.50 - £440.00 = £44.50	£44.50
5a)	£64 : £96 Divide both by 8 = 8 : 12, then by 4, 2 : 3 (remember to keep them the right way round)	2:3
5b)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20%
5c)	£240 · $\frac{1}{4} = \frac{£240}{4} = £60$. £240 - £60 = £180	£180
5d)	Brian-Air outward £64 return £80 total £144	£144
5e)	Brian-Air = £144 + (£20 × 2) = £184 Luxi-Air = £180. £184 - £180 = £4	£4
5f)	From Q4a), accommodation = £440. From Q5e), flight is £180. £440 + £180 = £620	£620
6a)	up to 17 days / Age 16-64: £20	£20
6b)	From Q5f), accom + flight = £620. From Q6, insurance = £20. £620 + £20 = £640, £640 · 4 = £2560	£2560
7	$C = £40 \cdot 7 + £180 = £280 + £180 = £460$	£460