

Question		Working	Answer	Mark	Notes	
1	(a)		Correct Venn diagram	3	B3 all regions (including empty regions) correct B2 for at least three (non-empty) regions correct, B1 for two (non-empty) regions correct Repeated values do not gain additional penalties (eg. if region $A \cap B \cap C'$ contains 8 and region $A' \cap B \cap C'$ contains 8 and 16. The first would be considered correct and the second incorrect)	
	(b)		6, 12, 24	1	B1 correct or ft their Venn diagram – accept in any brackets eg. {6,12,24}	
	(c)		10, 14, 20, 22, 26, 28	1	B1 correct or ft their Venn diagram – accept in any brackets eg, {10, 14, 20, 22, 26, 28}	
	(d)		8	1	B1 correct or ft their Venn diagram	SC (d) 10,14,18,20,22,26,28,30
	(e)		6	1	B1 correct or ft their Venn diagram	(e) 6,8,12,18,24,30 ft their Venn diagram scores B0B1
	(f)	$\frac{2}{\text{their } n}$			M1 where n is 13 or the number of elements in their E , may be seen in working	
			$\frac{2}{13}$	2	A1 oe cao	
		Total 9 marks				