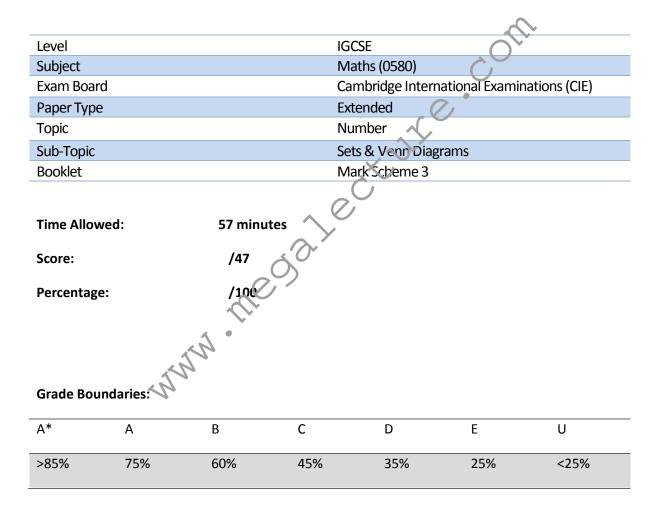
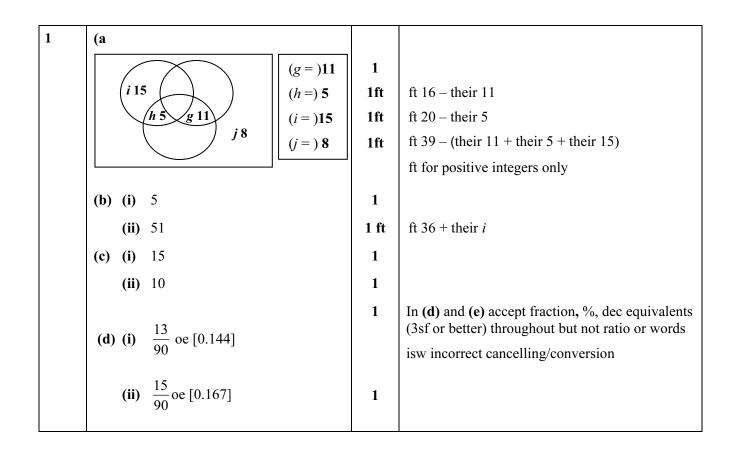
Sets & Venn Diagrams

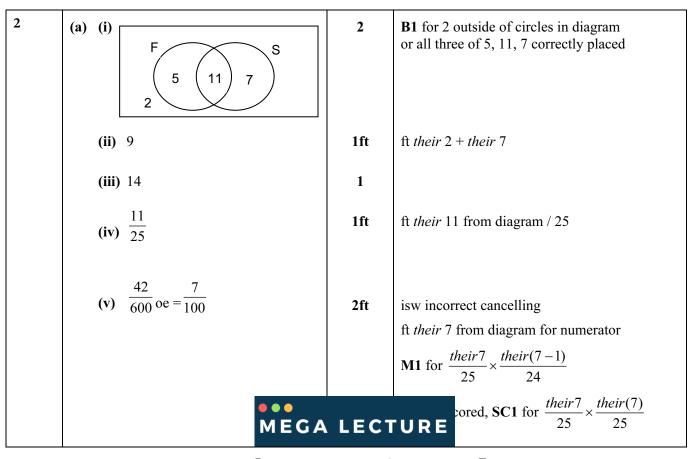
Mark Scheme 3



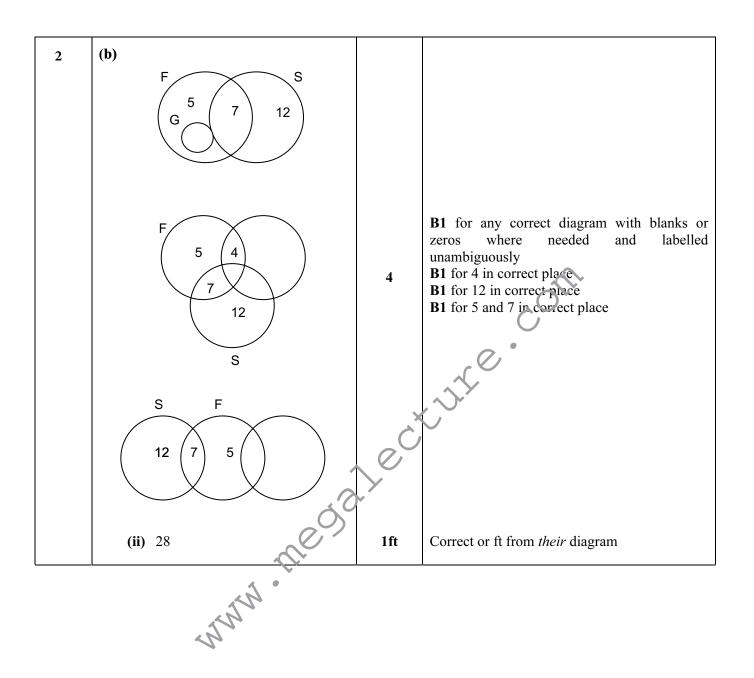


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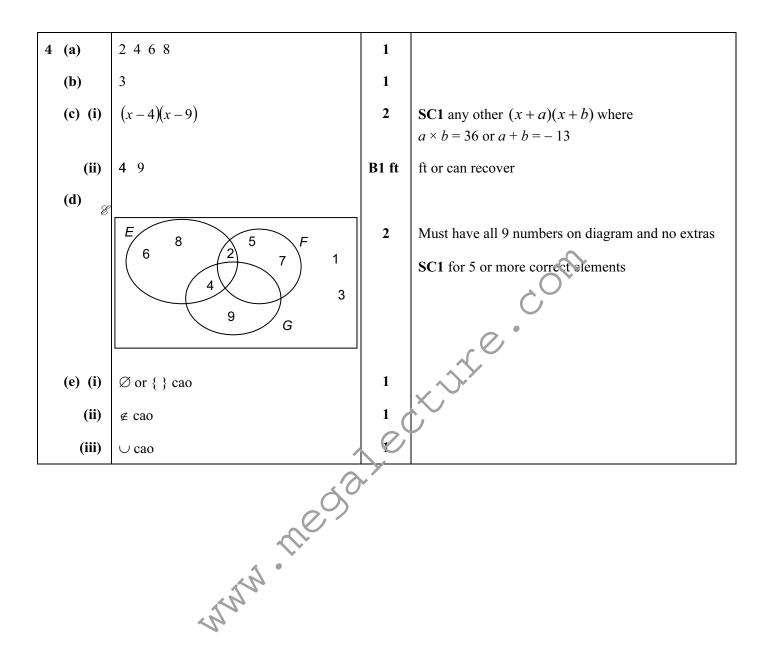
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3			Accept fraction, %, dec equivalents [3sf or better] throughout but not in ratio or words Isw incorrect cancelling or converting and do not accept ratios or words Pen -1 once for 2sf answers ft probability if 0
	(a) (i) $\frac{2}{20}$ oe (ii) $\frac{6}{20}$ oe	2	M1 for $\frac{2}{5} \times \frac{1}{4}$ oe
	(ii) $\frac{6}{20}$ oe	3	M2 for $2 \times \frac{1}{5} \times \frac{1}{4} + 2 \times \frac{2}{5} \times \frac{1}{4}$ oe M1 for pairs 1, 4 and 2, 3 clearly identified and no other incorrect pairings or for one appropriate product isw
	(iii) $\frac{14}{20}$ oe	1ft	ft 1 – <i>their</i> (a)(ii) or recovery to correct ans
	(b) (i) 7	1	
	(ii) 42	1	
	(iii) $\frac{7}{50}$	1ft	ft their 7/50 from Venn diagram or correct recovery
	(iv) $\frac{7}{9}$ [0.777[7] or 0.778]	1ft	ft <i>their 7/their</i> 9 from Venn diagram or correct recovery



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