

Question			Answer	Marks	AO	Guidance	
11	(a)		<p>Attempt to represent information e.g. by Venn diagram with x in centre and 3 other correct values in terms of x</p> <p>Attempt total (in terms of x) = 30</p> <p>$x = 4$ so $n(S \cap H \cap T) = 4$</p>	<p>B1</p> <p>M1</p> <p>E1</p> <p>[3]</p>	<p>3.3</p> <p>3.4</p> <p>1.1</p>	<p>Any equivalent method</p> <p>Or the number doing all three is 4. E0 for just $x = 4$</p>	<p>OR</p> <p>B1</p> $\frac{18}{30} + \frac{19}{30} + \frac{17}{30} - \left(\frac{8}{30} + \frac{9}{30} + \frac{11}{30}\right) \left(= \frac{26}{30}\right)$ <p>M1 $1 - \frac{26}{30} \left(= \frac{4}{30}\right)$</p>
11	(b)		$\frac{5}{9}$ oe	<p>B1FT</p> <p>[1]</p>	2.2a	FT their (i)	
11	(c)		$\frac{5}{9} \times \frac{19}{29}$ $\frac{4}{9} \times \frac{18}{29}$ $\frac{5}{9} \times \frac{19}{29} + \frac{4}{9} \times \frac{18}{29}$ $= \frac{167}{261}$ oe or 0.640 (3 s.f.)	<p>B1</p> <p>B1</p> <p>M1</p> <p>A1</p> <p>[4]</p>	<p>2.2a</p> <p>2.2a</p> <p>2.2a</p> <p>1.1</p>	All correct	