Question Number	Scheme	Marks
4.	$[\mathrm{F}(6)=]\frac{45}{77}$ **and** $[\mathrm{F}(7)=]\frac{60}{77}$	M1
	$[\mathrm{P}(W=7)=\mathrm{F}(7)-\mathrm{F}(6)=]"\frac{60}{77}"-"\frac{45}{77}"\left[=\frac{15}{77}\right]$ **and**	
	$[\mathrm{P}(W=8)=\mathrm{F}(8)-\mathrm{F}(7)=]1-"\frac{60}{77}"\left[=\frac{17}{77}\right]$	M1
	$\mathrm{E}(W)=6\times"\frac{45}{77}"+7\times"\frac{15}{77}"+8\times"\frac{17}{77}"$	M1
	$[=6\times0.5844+7\times0.1948\ +\ 8\times0.22077]$	
	$=\ \mathbf{\frac{73}{11}}$ **or awrt <u>6.64</u>**	A1
	Notes	**[4]**
	1st M1 for $\frac{45}{77}$ **and** $\frac{60}{77}$ seen Allow awrt 0.58 **and** awrt 0.78. may be seen unsimplified Implied by 2nd M1 or by seeing $\frac{15}{77}$ 2nd M1 for $"\frac{60}{77}"-"\frac{45}{77}"$ **and** $1-"\frac{60}{77}"$ allow awrt 0.195 or 0.20 **and** awrt 0.22 ft their F(6) and F(7) if working shown 3rd M1 for an attempt to calculate E(W) with P(W = 6) correct and the correct method or value for at least one of P(W = 7) or P(W = 8) A1 $\frac{73}{11}$ oe or awrt 6.64	