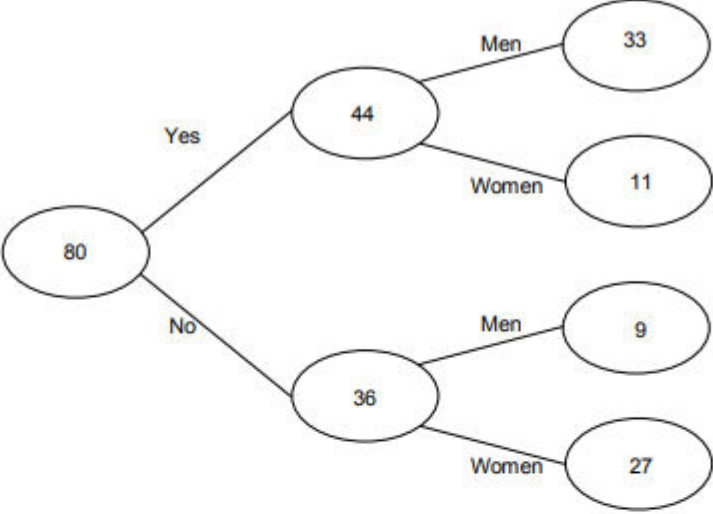
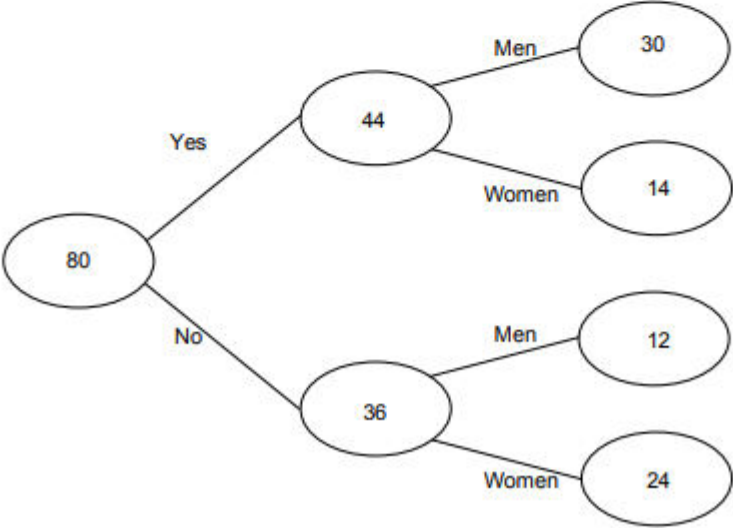


**FREQUENCY TREES**

**AQA GCSE – Wednesday 8 November 2017 – Paper 3 (Calculator) Higher Tier**

**1.**

<b>11(a)</b>	80	B1	
	44 and 36	B1ft	ft their 80 – 44
	27 and 9	B1ft	ft their $36 \div 4 \times 3$ and ft their $36 \div 4$
	15 and 29	B1ft	ft 42 – their 27 and ft 38 – their 9 Total on ft must be 44
	<b>Additional Guidance</b>		
			<b>B1B1B1B1</b>
	Mark diagram only, do not allow misread		
	Values may be rounded up or down to whole numbers provided the total is correct		
	Penalise the use of relative frequencies on the first occurrence only		
	If relative frequencies are shown the denominator must be 80 and not simplified eg $\frac{3}{4}$ and $\frac{1}{4}$ is B0		

	<p style="text-align: center;"><b>Voucher</b>                      <b>Gender</b></p>  <pre> graph LR     A(80) -- Yes --&gt; B(44)     A -- No --&gt; C(36)     B -- Men --&gt; D(33)     B -- Women --&gt; E(11)     C -- Men --&gt; F(9)     C -- Women --&gt; G(27)   </pre>	B1B1B0B1ft
	<p style="text-align: center;"><b>Voucher</b>                      <b>Gender</b></p>  <pre> graph LR     A(80) -- Yes --&gt; B(44)     A -- No --&gt; C(36)     B -- Men --&gt; D(30)     B -- Women --&gt; E(14)     C -- Men --&gt; F(12)     C -- Women --&gt; G(24)   </pre>	B1B1B0B1ft

<b>11(b)</b>	85% or 0.85	M1	
	$27.2 \div 0.85$ or $27.2 \div 85 (\times 100)$ or 0.32	M1dep	
	32(.00)	A1	Correct money notation Allow £32.00p
	<b>Additional Guidance</b>		
	32.0		M1M1A0