| | | | | |
|---|---|---|---|---|
| **2** | 1 – (0.20 + 0.26) oe or 0.54 oe or<br>$x + 2x + 0.26 + 0.20 = 1$ oe or<br>$x + 2x = 0.54$ oe or | | 4 | M1 showing clear understanding that the total of probabilities is 1<br>If probabilities are given as percentages then % sign must be seen |
| | $\frac{"0.54"}{3} (= 0.18)$<br>or<br>$\frac{2}{3} \times "0.54" (= 0.36)$ oe<br>or<br>"0.54" × 450 (= 243) | | | M1 for a correct method to find $x$ or $2x$ |
| | (2 ×) "0.18" × 450 oe or 81 or<br>"0.36" × 450 oe | | | M1 or for $\frac{81}{450}$ or $\frac{162}{450}$ |
| | *Working not required, so correct answer scores full marks (unless from obvious incorrect working)* | 162 | | A1 |
| | | | | **Total 4 marks** |

| | | | | |
|---|---|---|---|---|
| **2**<br>**ALT** | (0.2 × 450) + (0.26 × 450) (= 207) oe or<br>90 + 117 (= 207) or 0.46 × 450 (= 207) | | 4 | M1 |
| | 450 – "207" (= 243) | | | M1 |
| | $\frac{1}{3} \times "243"$ or 81 or $\frac{2}{3} \times "243"$ | | | M1 or for $\frac{81}{450}$ or $\frac{162}{450}$ |
| | *Working not required, so correct answer scores full marks (unless from obvious incorrect working)* | 162 | | A1 |
| | | | | **Total 4 marks** |