| | | | | | |
|---|---|---|---|---|---|
| **13** | (a) | | $\frac{3}{10}, \frac{7}{10}$<br>$\frac{5}{9}, \frac{4}{9}$<br>$\frac{5}{9}, \frac{4}{9}$ | 2 | B2 for all 3 correct pairs of probabilities on the correct branches<br><br>If not B2 then award B1 for 1 correct pair of probabilities on a correct branch<br><br>Allow equivalent fractions/decimals (to 2 dp truncated or rounded ie 0.55(…) and/or 0.44(…)) |
| | (b) | $"\frac{3}{10}"\times"\frac{5}{9}"$ oe or $"\frac{7}{10}"\times"\frac{4}{9}"$ oe or<br>$"\frac{3}{10}"\times"\frac{4}{9}"$ oe or $"\frac{7}{10}"\times"\frac{5}{9}"$ oe or | | 3 | M1ft (probabilities < 1)<br><br>Allow equivalent fractions/decimals (to 2 dp truncated or rounded ie 0.55(…) and/or 0.44(…)) |
| | | $"\frac{3}{10}"\times"\frac{5}{9}" + "\frac{7}{10}"\times"\frac{4}{9}"$ oe or<br>$1-\left("\frac{3}{10}"\times"\frac{4}{9}"+"\frac{7}{10}"\times"\frac{5}{9}"\right)$ oe | | | M1 ft<br><br>Allow equivalent fractions/decimals (to 2 dp truncated or rounded ie 0.55(…) and/or 0.44(…)) |
| | | *Working not required, so correct answer scores full marks (unless from obvious incorrect working)* | $\frac{43}{90}$ | | A1ft oe<br>0.47(77..) to 2 dp truncated or rounded or 47.(77)% to 2 sf truncated or rounded |
| | | | | | **Total 5 marks** |