| | | | | | |
|---|---|---|---|---|---|
| **13** | (a) | | $\frac{5}{12}$ | 2 | B1 for first choice correct<br>0.41(666…) to 2 dp truncated or rounded |
| | | | $\frac{7}{12}, \frac{5}{12}$ | | B1 for second choice correct<br>0.58(333…) to 2 dp truncated or rounded<br>0.41(666…) to 2 dp truncated or rounded |
| | (b) | $"\frac{5}{12}" \times \frac{5}{12}$ oe | | 2 | M1 ft from their tree diagram<br>0.58(333…) to 2 dp truncated or rounded |
| | | | $\frac{25}{144}$ | | A1 oe 0.17(361111…) to 2 dp truncated or rounded or<br>17.(361111)% to 2 sf truncated or rounded |
| | (c) | $\frac{7}{12} \times \frac{5}{12} \times \frac{x}{15}$ oe **or** $\frac{7}{12} \times \frac{5}{12} \times y$ **or**<br>$2 \times \frac{7}{12} \times \frac{5}{12}$ oe | | 3 | M1 for *GRB* or *RGB* or<br>2 × *GR* or 2 × *RG* |
| | | $2 \times \frac{7}{12} \times \frac{5}{12} \times \frac{x}{15} = \frac{7}{24}$ oe **or**<br>$2 \times \frac{7}{12} \times \frac{5}{12} \times y = \frac{7}{24}$ oe **or**<br>$\frac{\frac{7}{24}}{2 \times \frac{7}{12} \times \frac{5}{12}} \left(= \frac{3}{5}\right)$ oe | | | M1 (ft their tree diagram) for a complete method<br><br>0.29(166…) to 2 dp truncated or rounded |
| | | | 9 | | A1 |
| | | | | | **Total 7 marks** |