| | | | | | |
|---|---|---|---|---|---|
| **24** | $\frac{5}{x}\times\frac{(x-4)}{x}$ oe **or** $\frac{(x-5)}{x}\times\frac{6}{x}$ oe | | 5 | M1 | for a correct expression for P(R,G) or P(G,R) |
| | $\frac{5}{x}\times\frac{(x-4)}{x}$ + $\frac{(x-5)}{x}\times\frac{6}{x}$ oe | | | M1 | for a correct expression for P(R,G) + P(G,R) |
| | $19x^2 - 352x + 1600$ (= 0) oe<br>**or** $19x^2 - 352x = -1600$ oe | | | M1 | for a correct equation in the form<br>$ax^2 + bx + c$ (= 0) oe **or** $ax^2 + bx = -c$ oe |
| | $(x - 8)(19x - 200)$ (= 0)<br>**or**<br>$(x=)\frac{--352\pm\sqrt{(-352)^2-(4\times19\times1600)}}{2\times19}$<br>**or** $19\left[\left(x-\frac{176}{19}\right)^2-\left(\frac{176}{19}\right)^2\right]+1600(=0)$ | | | M1 | for solving their 3-term quadratic equation using any correct method - if factorising, allow brackets which expanded give 2 out of 3 terms correct (if using formula or completing the square allow one sign error and some simplification – allow as far as<br>$\frac{352\pm\sqrt{123904-121600}}{38}$ oe **or** $19\left(x-\frac{176}{19}\right)^2-\frac{576}{19}(=0)$ oe ) |
| | | 8 | | A1 | cao, dep on M2. Do not award if non−integer solution also given.<br>8 must come from correct working. |
| | | | | | **Total 5 marks** |