| Question | Working | Answer | Mark | Notes |
|---|---|---|---|---|
| **20** | $\frac{n-4}{n}$ or $\frac{n-5}{n-1}$ | | | M1 $\frac{n-4}{n}$ or $\frac{n-5}{n-1}$ |
| | $\frac{n-4}{n}\times\frac{n-5}{n-1}=\frac{1}{3}$ | | | M1 for the correct equation |
| | Eg $3(n^2-9n+20)=n(n-1)$ **or** $3n^2-27n+60=n^2-n$ | | | M1 for a correct quadratic equation with fractions removed |
| | Eg $2n^2-26n+60=0$ **or** $n^2-13n+30=0$ | | | M1 for a correct quadratic equation equal to 0 |
| | Eg $(n-10)(n-3)=0$ **or** $\frac{--13\pm\sqrt{(-13)^2-4\times1\times30}}{2\times1}$ | | | M1 dep on M2 ft for method to solve 3 term quadratic |
| | | 10 | 6 | A1 for correct answer from correct working<br><br>NB. Award M5A1 for an 8answer of 10 with justification e.g. $\frac{6}{10}\times\frac{5}{9}=\frac{1}{3}$<br><br>Award M0A0 for an answer of 10 with no working and no justificastion |