
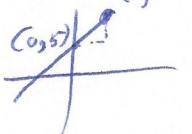


| 29th October  |   | <br>Corbettmaths |
|---|---|---|
| Work out an estimate for<br>$\frac{4.086 \times 2.992}{0.192} \approx$  | $\frac{4 \times 3}{0.2} = \frac{12}{0.2} = \frac{120}{2} = 60$<br><br>$60$  |   |
| Factorise $x^2 - 5x - 14$<br>$(x-7)(x+2)$   | Factorise $x^2 - 21x + 20$<br>$(x-20)(x-1)$   |   |
| In a small village, one bus arrives a day.<br>The probability of rain in the village is 0.3.<br>If it rains, the probability of a bus being late is 0.4.<br>If it does not rain, the probability of a bus being late is 0.15. |   |   |
| Work out the number of days the bus will be late over a period of 240 days.<br><br>$54$   | $P(RL) = 0.3 \times 0.4 = 0.12$<br>$P(NRL) = 0.7 \times 0.15 = 0.105$<br>$\begin{array}{r} 0.12 \\ + 0.105 \\ \hline 0.225 \end{array}$<br>$240 \times 0.225$ |   |
| A line has gradient 2 and passes through the point (1, 7)<br>Find the equation of the line. (1, 7)   | $y = 2x + 5$  |   |