

Question	Working	Answer	Mark	Notes
1		5, 1, -3	2	-1 for every error or omission
				<i>Total 2 marks</i>

2	$60 = 2^2 \times 3 \times 5$ $126 = 2 \times 3^2 \times 7$ $648 = 2^3 \times 3^4$			M1 for prime factors of two of 60, 126, 648 (or equivalent e.g. factor ladder/trees <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: right;">60</div> <div style="text-align: right;">126</div> <div style="text-align: right;">648</div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: right;">2:</div> <div style="text-align: right;">30</div> <div style="text-align: right;">63</div> <div style="text-align: right;">324</div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: right;">3:</div> <div style="text-align: right;">10</div> <div style="text-align: right;">21</div> <div style="text-align: right;">108</div> </div> or listing at least 6 factors of each of the 3 numbers
	HCF(60,126,648) = 2×3	6	2	A1
				<i>Total 2 marks</i>

3	$\frac{325}{3700}$ or $\frac{0.325}{3.7}$ oe			M1 (any fraction that uses compatible units is acceptable) oe but not fully simplified eg $\frac{3.25}{37}$ or 0.0878.... or 8.78...%
		$\frac{13}{148}$	2	A1
				<i>Total 2 marks</i>