



Q	Answer	Marks
1	£48	2
2	a) SAS b) ASA c) RHS d) not enough information	4
3	$7n - 4$	2
4	The first pair of branch probabilities do not add up to 1 ($0.6 + 0.5 = 1.1$); he should have multiplied along the branches, not added (and a probability cannot be more than 1).	2
5	72 degrees, co-interior angles	2
6	a) 2 b) 42	3
7	a) 1 b) $\frac{1}{8}$	2
8	a) 2 b) The cost per kilometre, £2 per km c) The fixed fee of £3 (cost when distance is 0)	3
9	a) 1, 2, 3, 6 b) Yes, because 9 is in B (9 is a factor of 18), so it is in the union	3
10	a ($x = -1$)) -3 a ($x = 1$)) -1 a ($x = 2$)) 0 b) $x = 0$ and $x = 2$	4
11	a) 4 km/h b) 11:45	3
12	a) 6.98×10^{-2} b) 7.3×10^{-2} ($0.073 > 0.0698$)	3
13	$2^2 \times 3 \times 7$	2
14	$x = 23$	3
15	$x = 5$	2
16	$x < 4$	2
17	2600	2
18	£216	2
19	12	2
20	$335 \leq m < 345$	2

Full worked solutions, written out by hand, are on the solutions sheet for this sheet.