

Question			Answer	Marks	Part marks and guidance	
	(c)		Correct comment on the reasonableness of her assumption e.g. 'She has assumed that 'all day' means 'for 24 hours', but it is not reasonable for them to work without a break.' Correct comment on the effect it will have on the answer e.g. 'They can't work at that rate for that long, so her answer is an over-estimate.'	2 1 AO3.4a 1 AO3.5	B1 for each	
16	(a)		Outcomes not equally likely oe	1 1 AO3.4b		
	(b)		Larger number of trials	1 1 AO3.4a		
	(c)		0.09 – 0.16	2 1 AO1.3a 1 AO2.1b	M1 for $\left(\frac{48}{150}\right)^2$ or 0.35^2 or any reasonable estimate (FT <i>their</i> (b))	
17	(a)		10, 16, 26	1 1 AO1.3a		
	(b)		8, 13, 21	2 1 AO1.3a 1 AO3.1a	M1 for one correct subtraction of two boxes	
	(c)		$a + b$, $a + 2b$, $2a + 3b$	2 2 AO1.3a	M1 for two expressions correct	
	(d)		15, 21, 36	3 1 AO1.3a 2 AO2.1a	M1 for <i>their</i> ' $2a + 3b$ ' = 57 M1 for substituting $a = 6$ into <i>their</i> final expression and solving for b	
18	(a)		The first error is in step 2 $-3x - 2x = -5x$, not $-x$ as given	2 2 AO2.5a	B1 for identifying step 2 B1 for explaining the error	