Question Number	Scheme	Marks
4(a)	$0.25\times£5+0.4\times£6+0.35\times£7$ (o.e)	M1
	$=[£]6.10$	A1
		(2)
(b)	5 5 5 6 6 6 7 7 7 5 5 6 (x3) 6 6 7 (x3) 6 7 7 (x3) 5 5 7 (x3) 5 6 6 (x3) 5 7 7 (x3) 5 6 7 (x6)	B1B1
		(2)
(c)	P(5) = 0.25 P(6) = 0.4 P(7) = 0.35	B1
	Range can be 0, 1, or 2	B1
	$[\mathrm{P}(R=0)]=0.25^3+0.4^3+0.35^3=\frac{49}{400}$	M1
	$[\mathrm{P}(R=1)]=0.25^2\times0.4\times3+0.4^2\times0.35\times3+0.4\times0.35^2\times3+0.25\times0.4^2\times3=\frac{51}{100}$	M1
	$[\mathrm{P}(R=2)]=0.25^2\times0.35\times3+0.25\times0.35^2\times3+0.25\times0.4\times0.35\times6=\frac{147}{400}$	M1
	r | 0 | 1 | 2 P($R=r$) | $\frac{49}{400}$ (0.1225) | $\frac{51}{100}$ (0.51) | $\frac{147}{400}$ (0.3675)	A1
		(6)

	Notes	Total 10
(a)	**M1**	For $0.25\times£5+0.4\times£6+0.35\times£7$ (o.e) (May be implied by a correct answer)
	A1	[£] 6.10 (allow 6.1)
	Part b)	If combinations not given in b), award the B marks, if the combinations are seen in c)
(b)	**B1**	For 8 of the 10 possible combinations (Ignore repeats). (Condone if they sum the combinations, combinations need to be seen)
	B1	All possible 10 combinations given (Ignore repeats). (Condone if they sum the combinations, combinations need to be seen)
(c)	**B1**	All three probabilities written or used (may be seen in an equation in c) or implied by a correct probability)
	B1	All three ranges and no extras (may see these in the table) Need to be ranges
	M1	A correct method for $\mathrm{P}(R=0)$ (implied by $\frac{49}{400}$ (o.e) or exact equivalent, may be in table))
	M1	A correct method for $\mathrm{P}(R=1)$ (implied by $\frac{51}{100}$ (o.e) or exact equivalent, may be in table))
	M1	A correct method for $\mathrm{P}(R=2)$ (implied by $\frac{147}{400}$ (o.e) or exact equivalent, may be in table)) **or** their 3 probabilities sum to 1
	A1	fully correct with probabilities or exact equivalents. (Need not be in a table but must be attached to the correct range. (Fully correct with no incorrect working implies 6/6)