

Question Number	Scheme	Marks												
2.(a)	$p + q + 0.2 + 0.3 + p = 1$ <u>or</u> $2p + q = 0.5$ (o.e.)	B1 (1)												
(b)	$[E(X) =] -2p - q + \frac{1}{2} \times 0.2 + \frac{1}{2} \times 0.3 + 2p$ $[= 0.4]$ <u>or</u> $-q + 0.1 + 0.45$ $[= 0.4]$ <u>$q = 0.15$</u>	M1A1 A1 (3)												
(c)	$2p + "0.15" = 0.5$ (o.e.) <u>$p = 0.175$</u>	M1 A1 (2)												
(d)	$[Var(X) =] 2.275 - (0.4)^2$ <u>$= 2.115$</u> (Accept 2.12)	M1 A1 (2)												
(e)	<table border="1"><tr><td>r</td><td>$-\frac{1}{2}$</td><td>-1</td><td>2</td><td>$\frac{2}{3}$</td><td>$\frac{1}{2}$</td></tr><tr><td>$P(R=r)$</td><td>p</td><td>q</td><td>0.2</td><td>0.3</td><td>p</td></tr></table> $E(R) = -\frac{1}{2}p - q + 0.4 + 0.2 + \frac{1}{2}p$ $= 0.6 - q = \underline{0.45}$ (or $\frac{9}{20}$)	r	$-\frac{1}{2}$	-1	2	$\frac{2}{3}$	$\frac{1}{2}$	$P(R=r)$	p	q	0.2	0.3	p	M1 dM1 A1ft (3)
r	$-\frac{1}{2}$	-1	2	$\frac{2}{3}$	$\frac{1}{2}$									
$P(R=r)$	p	q	0.2	0.3	p									
(f)(i)	$S > R$ when $x = 1.5$ and 2 $P(\text{Sarah wins}) = 0.3 + p = \underline{0.475}$ (or $\frac{19}{40}$)	M1 A1ft												
(ii)	$R > S$ when $x = -2$ and $\frac{1}{2}$ or $r = -\frac{1}{2}$ and 2 $P(\text{Rebecca wins}) = 0.2 + p = \underline{0.375}$ (or $\frac{15}{40}$)	M1 A1ft (4)												
		[15 marks]												
Notes														
(a)	B1 for any correct equation based on sum of probs. = 1 Correct answer only in (b), (c), (d), (e) or (f) scores full marks for that part.													
(b)	M1 for an attempt at an expression based on $E(X)$. At most 2 errors or omissions. 1 st A1 for a correct <u>equation</u> [May be implied by a correct answer] 2 nd A1 for $q = 0.15$ or exact equivalent e.g. $\frac{3}{20}$													
(c)	M1 for correct equation or using their equation from (a) with their q , provided $q \in [0,1]$ A1 for $p = 0.175$ or exact equivalent e.g. $\frac{7}{40}$													
(d)	M1 for a correct numerical expression <u>but</u> M0 if followed by division by k (e.g. $k = 5$) A1 for 2.115 or accept awrt 2.12 (also accept exact equivalent e.g. $\frac{423}{200}$)													
(e)	1 st M1 for correct values for R , allow 1 error, and allow unsimplified. Condone no label if not used as probabilities. If seen in table on QP allow, but <u>must</u> be labelled. Just writing the sum $\sum r$ is M0 but adding later can score 1 st M1 2 nd dM1 dependent on 1 st M1 for an attempt at an expression based on $E(R)$, ft p and q , (if probabilities) ft their r values. At least 3 correct (or correct ft) products seen. A1ft for 0.45 or $(0.6 - \text{their } q)$ provided q is a probability Answers for (f) must be clearly labelled or take 1 st as (i) and 2 nd as (ii)													
(f)(i)	M1 for identifying the correct values of X A1ft for 0.475 or $0.3 + \text{their } p$, provided answer is a probability													
(ii)	M1 for identifying the correct values of X or R A1ft for 0.375 or $0.2 + \text{their } p$ <u>or</u> $1 - \text{their } 0.475 - \text{their } q$, provided ans. is a probability													
SC1 X_1, X_2 SC2 swap Epen	They use two values of X : (i) for $P(S > R) = 0.445$ (B1) (ii) for $P(R > S) = 0.4625$ (B1). No ft Answers wrong way round: (i) $P(S > R) = 0.375$ and (ii) $P(R > S) = 0.475$ (B1) No ft On open record SC1 as: (i) M0A1 (ii) M0A1 and SC2 as M0A0M0A1													

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