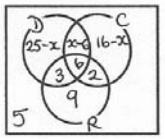
Question		Working	Answer	Mark	Notes
16	(a)		$\frac{3}{10}, \frac{7}{12}, \frac{5}{12}, \frac{7}{12}, \frac{5}{12}$	2	B2 B1 for $\frac{3}{10}$ oe B1 for all other correct probabilities 2d.p truncated or rounded (e.g 0.58 or 0.41 or 0.42)
	(b)	$\frac{7}{10}$ x "$\frac{5}{12}$" or "$\frac{3}{10}$" x "$\frac{7}{12}$" oe		3	M1ft
		$\frac{7}{10}$ x "$\frac{5}{12}$" + "$\frac{3}{10}$" x "$\frac{7}{12}$" oe			M1ft
			$\frac{56}{120}$ oe		A1 eg $\frac{7}{15}$ or 0.46....(2 dp truncated or rounded)
	(c)	"$\frac{3}{10}$" x "$\frac{5}{12}$" x $x = \frac{3}{100}$ oe		3	M1ft A correct equation involving the unknown probability
		$x = \frac{3}{100} \div$ "$\frac{15}{120}$" $(= \frac{6}{25})$ oe			M1ft Isolating or calculating the value of x
			25		A1 Dep on M1
					Total 8 marks

17	(a)			3	B3 All 8 values inserted correctly B2 for 4 to 7 correct values B1 for 2 or 3 correct values NB: Expressions involving x do not have to be simplified.
	(b)	"$[(25 - x) + (x - 6) + (16 - x) + 3 + 6 + 2 + 9 + 5]$" = 50		2	M1ft For sum of all their values = 50 oe
			10		A1
	(c)		14	1	B1ft
					Total 6 marks