1		eg $\frac{x+7}{80} = \frac{1}{4}$ or $4(x+7) = 80$ or $x+7 = 20$		4	M1	for setting up a correct equation in terms of x only
		eg $x = 80 \times \frac{1}{4} - 7 \ (=13)$ or $4x + 28 = 80$ and $x = \frac{80-28}{4} \ (=13)$ or $x = 13$			M1	for a complete method to find the value of x **or** $x = 13$. Award of this mark implies M2.
		eg $80 - ("13" + 7 + "13" - 11 + 3 \times "13")(=19)$ or $\frac{"13" + 7 + "13" - 11 + 3 \times "13"}{80} \left(= \frac{61}{80} \right)$			M1	for a method to find the number of yellow counters **or** P(R or B or G)
		Correct answer scores full marks (unless from obvious incorrect working)	$\frac{19}{80}$		A1	oe eg accept 0.2375 or 23.75% or 0.237 or 23.7% or 0.238 or 23.8% or 0.24 or 24%
						Total 4 marks

2	(a)	eg $x + 0.15 + 0.5 + y + 0.13 + 0.03 = 1$ oe **or** $x + y = 1 - 0.15 - 0.5 - 0.13 - 0.03$ oe **or** $x + y + 0.81 = 1$ oe **or** $x + y = 1 - 0.81$ oe **or** $1 - 0.15 - 0.5 - 0.13 - 0.03 = 0.19$ oe **or** $1 - 0.81 = 0.19$ oe		2	M1	for setting up an equation in x and y using the sum of probabilities equals 1 **or** for showing that probabilities add up to 1
		Working required	Shown		A1	correctly rearranges to $x + y = 0.19$ (must be shown from a correct method) **or** a clear statement that $x + y = 0.19$
	(b)	$x + y = 0.19$ $3x + 3y = 0.57$ $3x - y = 0.09$ $3x - y = 0.09$ Adding Subtracting $(x + 3x = 0.19 + 0.09$ or $(3y - -y = 0.57 - 0.09$ or $4x = 0.28)$ $4y = 0.48)$ **or** **or** $3x - (0.19 - x) = 0.09$ $3(0.19 - y) - y = 0.09$ or or $x + 3x - 0.09 = 0.19$ $\left(\frac{0.09 + y}{3} \right) + y = 0.19$		3	M1	for a correct method to eliminate x or y: coefficients of x or y the same **and** correct operator to eliminate selected variable (condone any one arithmetic error in multiplication) **or** writing x or y in terms of the other variable and correctly substituting (condone missing brackets)
		"0.07" + $y = 0.19$ $3x + 3 \times "0.12" = 0.57$ or or $3 \times "0.07" - y = 0.09$ $3x - "0.12" = 0.09$ **or** **or** $y = 0.19 - "0.07"$ $x = 0.19 - "0.12"$ or or $y = 3 \times "0.07" - 0.09$ $x = \left(\frac{0.09 + "0.12"}{3} \right)$			M1	dep on first M1 for a correct method to find other variable by substitution of found variable into one equation **or** for repeating the above method to find the second variable.
		Working required	$x = 0.07$ and $y = 0.12$		A1	oe dep on M1
						Total 5 marks

3	(b)	$18 + x + 2x = 90$ oe or $90 - 18 \ (= 72)$		3	M1	
		$x = \frac{90 - 18}{3} = 24$ or "72" ÷ 3 (= 24)			M1	
		Correct answer scores full marks (unless from obvious incorrect working)	$\frac{24}{90}$		A1	oe or 0.26(666…) or 26(.666…)% truncated or rounded