22	$\frac{3}{15}\times\frac{2}{14}\times\frac{1}{13}\left(=\frac{6}{2730}=\frac{1}{455}\right)$ oe **or** $\left(\frac{3}{15}\times\frac{2}{14}\times\frac{10}{13}\right)\left(=\frac{60}{2730}=\frac{2}{91}\right)$ oe **or** $\left(\frac{3}{15}\times\frac{10}{14}\times\frac{9}{13}\right)\left(=\frac{270}{2730}=\frac{9}{91}\right)$ oe **or** $\left(\frac{3}{15}\times\frac{2}{14}\times\frac{2}{13}\right)\left(=\frac{12}{2730}=\frac{2}{455}\right)$ oe **or** $\left(\frac{10}{15}\times\frac{9}{14}\times\frac{8}{13}\right)\left(=\frac{720}{2730}=\frac{24}{91}\right)$ oe **or** $\left(\frac{10}{15}\times\frac{9}{14}\times\frac{2}{13}\right)\left(=\frac{180}{2730}=\frac{6}{91}\right)$ oe **or** $\left(\frac{10}{15}\times\frac{3}{14}\times\frac{2}{13}\right)\left(=\frac{60}{2730}=\frac{2}{91}\right)$ oe **OR** $\left(\frac{2}{15}\times\frac{1}{14}\times\frac{3}{13}\right)\left(=\frac{6}{2730}=\frac{1}{455}\right)$ oe **or** $\left(\frac{2}{15}\times\frac{1}{14}\times\frac{10}{13}\right)\left(=\frac{20}{2730}=\frac{2}{273}\right)$ oe **or** $\left(\frac{2}{15}\times\frac{1}{14}\times\frac{13}{13}\right)\left(=\frac{26}{2730}=\frac{1}{105}\right)$ oe **OR** $\left(\frac{13}{15}\times\frac{12}{14}\times\frac{11}{13}\right)\left(=\frac{1716}{2730}=\frac{22}{35}\right)$ oe **or** $\left(\frac{13}{15}\times\frac{12}{14}\times\frac{2}{13}\right)\left(=\frac{312}{2730}=\frac{4}{35}\right)$ oe		3	M1 one of **numerical** probabilities for RRR **or** RRB **or** RBB **or** RRP **or** BBB **or** BBP **or** BRP **OR** PPR **or** PPB **or** PPP′ **OR** P′ P′ P′ **or** P′ P′P [where P = probability of pink, R = probability of red, B = probability of blue, P′ = probability of not pink] For $\left(\frac{2}{15}\times\frac{1}{14}\times\frac{13}{13}\right)\left(=\frac{26}{2730}=\frac{1}{105}\right)$ accept $\left(\frac{2}{15}\times\frac{1}{14}\right)\left(=\frac{1}{105}\right)$
	$\left(\frac{3}{15}\times\frac{2}{14}\times\frac{1}{13}\right)+3\left(\frac{3}{15}\times\frac{2}{14}\times\frac{10}{13}\right)+3\left(\frac{3}{15}\times\frac{10}{14}\times\frac{9}{13}\right)+3\left(\frac{3}{15}\times\frac{2}{14}\times\frac{2}{13}\right)+\left(\frac{10}{15}\times\frac{9}{14}\times\frac{8}{13}\right)+3\left(\frac{10}{15}\times\frac{9}{14}\times\frac{2}{13}\right)+6\left(\frac{10}{15}\times\frac{3}{14}\times\frac{2}{13}\right)$ **OR** $1-3\times\left(\frac{2}{15}\times\frac{1}{14}\times\frac{3}{13}\right)-3\times\left(\frac{2}{15}\times\frac{1}{14}\times\frac{10}{13}\right)$ **OR** $1-3\times\frac{2}{15}\times\frac{1}{14}\times\frac{13}{13}$ oe **OR** $\left(\frac{13}{15}\times\frac{12}{14}\times\frac{11}{13}\right)+3\left(\frac{13}{15}\times\frac{12}{14}\times\frac{2}{13}\right)$			M1 for adding at least one of each probability for RRR, RRB, RBB, RRP, BBB, BBP and BRP **OR** for subtracting at least one of the probabilities of PPR and PPB from 1 **OR** subtracting at least one of the probabilities for PPP′ from 1 **OR** for adding 3PPR and 3PPB **OR** for 3 PPP′ **OR** for adding at least one of the probabilities for P′ P′ P′ and P′ P′P for $\frac{2}{15}\times\frac{1}{14}\times\frac{13}{13}$ accept $\frac{2}{15}\times\frac{1}{14}$
	Correct answer scores full marks (unless from obvious incorrect working)	$\frac{34}{35}$		A1 oe eg $\frac{2652}{2730}$ or 0.97(14…) or 97.(14)%
				Total 3 marks