

Question	Answer	Mark	Mark scheme	Additional guidance
15	Shown	M1	<p>for one correct product</p> <p>eg $\frac{7}{10} \times \frac{7}{10} \times \frac{7}{10} (= \frac{343}{1000})$ oe or $\frac{7}{10} \times \frac{7}{10} \times \frac{3}{10} (= \frac{147}{1000})$ oe</p> <p>or $\frac{3}{10} \times \frac{3}{10} \times \frac{3}{10} (= \frac{27}{1000})$ oe or $\frac{3}{10} \times \frac{3}{10} \times \frac{7}{10} (= \frac{63}{1000})$ oe</p> <p>or $\frac{7}{10} \times \frac{7}{10} (= \frac{49}{100})$ oe or $\frac{3}{10} \times \frac{3}{10} (= \frac{9}{100})$ oe</p>	<p>Throughout accept probabilities given as decimals or percentages</p> <p>Condone sampling without replacement for the first method mark only provided it is in the form $\frac{a}{10} \times \frac{b}{9} \times \frac{c}{8}$ where a, b, c are integers and $a < 10$ and $b < 9$ and $c < 8$</p>
		M1	<p>for $\frac{7}{10} \times \frac{7}{10} \times \frac{7}{10} (= \frac{343}{1000})$ oe and $\frac{7}{10} \times \frac{7}{10} \times \frac{3}{10} (= \frac{147}{1000})$ oe</p> <p>or $\frac{3}{10} \times \frac{3}{10} \times \frac{3}{10} (= \frac{27}{1000})$ oe and $\frac{3}{10} \times \frac{3}{10} \times \frac{7}{10} (= \frac{63}{1000})$ oe</p> <p>or $\frac{7}{10} \times \frac{7}{10} (= \frac{49}{100})$ oe and $\frac{7}{10} \times \frac{7}{10} \times \frac{3}{10} (= \frac{147}{1000})$ oe</p> <p>or $\frac{3}{10} \times \frac{3}{10} (= \frac{9}{100})$ oe and $\frac{3}{10} \times \frac{3}{10} \times \frac{7}{10} (= \frac{63}{1000})$ oe</p>	<p>Condone any labelling, even if incorrect for the method marks ÷</p>
		M1	<p>for $\frac{7}{10} \times \frac{7}{10} \times \frac{7}{10}$ oe and $3 \times \frac{7}{10} \times \frac{7}{10} \times \frac{3}{10}$ oe</p> <p>or $\frac{3}{10} \times \frac{3}{10} \times \frac{3}{10}$ oe and $3 \times \frac{3}{10} \times \frac{3}{10} \times \frac{7}{10}$ oe</p> <p>or $\frac{7}{10} \times \frac{7}{10}$ oe and $2 \times \frac{7}{10} \times \frac{7}{10} \times \frac{3}{10}$ oe</p> <p>or $\frac{3}{10} \times \frac{3}{10}$ oe and $2 \times \frac{3}{10} \times \frac{3}{10} \times \frac{7}{10}$ oe</p>	

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		C1	<p>for a complete method and chain of reasoning leading to $\frac{98}{125}$</p> <p>eg $\frac{7}{10} \times \frac{7}{10} \times \frac{7}{10} + 3 \times \frac{7}{10} \times \frac{7}{10} \times \frac{3}{10} = \frac{98}{125}$</p> <p>or $1 - \frac{3}{10} \times \frac{3}{10} \times \frac{3}{10} - 3 \times \frac{3}{10} \times \frac{3}{10} \times \frac{7}{10} = \frac{98}{125}$</p> <p>or $\frac{7}{10} \times \frac{7}{10} + 2 \times \frac{7}{10} \times \frac{7}{10} \times \frac{3}{10} = \frac{98}{125}$</p> <p>or $1 - \frac{3}{10} \times \frac{3}{10} - 2 \times \frac{3}{10} \times \frac{3}{10} \times \frac{7}{10} = \frac{98}{125}$</p>	