

## Tree Diagrams Revision

(a)	(b)	(c)
<p>Allie and Alex play two games of tennis. The probability of Allie winning the game is 0.45.</p> <p>(a) Complete the tree diagram.</p> <div style="text-align: center; margin-bottom: 10px;"> <p><b>2nd Game</b></p> </div> <p>(b) Find the probability that Alex wins both matches.</p> <p style="text-align: center; color: red; font-weight: bold;">0.3025</p> <p>(c) Find the probability that Allie and Alex win one match each.</p> <p style="text-align: center; color: red; font-weight: bold;">0.495</p>	<p>Yusuf spins two fair spinners, A and B. Spinner A can land on a 1, 2 or 3. Spinner B can land on a 2, 3 or 4.</p> <p>(a) Draw a tree diagram.</p> <div style="text-align: center; margin-bottom: 10px;"> <p><b>Spinner B</b></p> </div> <p>(b) Find the probability that the total on the spinners is an odd number.</p> $5 \times \frac{1}{3} \times \frac{1}{3} = \frac{5}{9}$	<p>There are 10 biscuits in a tin. 7 are digestives and 3 are bourbons. Temi takes a biscuit at random from the tin and eats it. She does this two more times. Calculate the probability that she has eaten at least two digestives.</p> <div style="text-align: center; margin-bottom: 10px;"> <p><b>3rd Biscuit</b></p> </div> <p><i>P(at least two digestives)</i></p> $  \begin{aligned}  &= \frac{210}{720} + \frac{126}{720} + \frac{126}{720} + \frac{126}{720} \\  &= \frac{588}{720} \\  &= \frac{49}{60}  \end{aligned}  $