

# Oxford Revise | AQA GCSE Maths Foundation | Answers

## Chapter 28 Expected results, tree diagrams, set notation, and probability from tables and diagrams

Question	Answer	Extra information	Marks
28.1	$0.4 \times 0.5 = 0.2$	$0.4 \times 0.5$ Correct answer	1 1
28.2 (a)	<p><b>Tennis</b>                      <b>Chess</b></p> <pre> graph LR     Root(( )) --- 2/3  WinT[Win]     Root --- 1/3  LoseT[Lose]     WinT --- 5/8  WinTT[Win]     WinT --- 3/8  LoseTT[Lose]     LoseT --- 5/8  WinTL[Win]     LoseT --- 3/8  LoseTL[Lose]     </pre>	No more than 1 error Fully correct	1 1
28.2 (b)	$\frac{2}{3} \times \frac{5}{8} = \frac{10}{24} = \frac{5}{12}$	$\frac{2}{3} \times \frac{5}{8}$ Correct answer or equivalent, simplified fraction	1 1
28.3		28 in correct position 7 in correct position	1 1

Question	Answer	Extra information	Marks
28.4		1 mark for each correct number	4
28.5 (a)	(2, 3, 6, 7, 9, 10, 12)		1
28.5 (b)	(10, 12, 17, 18)		1
28.6 (a)	<p>Table entries: 3 grey circles, 3 white circles 1 white square</p> <p>Totals: 6 grey shapes, 4 squares, 10 shapes overall</p>	<p>Any 1 row or column correct</p> <p>Any 2 rows or columns correct</p> <p>Fully correct</p>	<p>1</p> <p>1</p> <p>1</p>
28.6 (b)	$\frac{4}{10} = \frac{2}{5}$		1

Question	Answer	Extra information	Marks																
28.7 (a)		4, 16 and 25 correctly placed 1 and 16 correctly placed 8 and 27 correctly placed 2 correctly placed	1 1 1 1																
28.7 (b)	(1, 64)		1																
28.8 (a)	<table border="1"> <thead> <tr> <th></th> <th>Snooker</th> <th>Darts</th> <th>Total</th> </tr> </thead> <tbody> <tr> <th>Good</th> <td>4</td> <td>8</td> <td>12</td> </tr> <tr> <th>Average</th> <td>10</td> <td>13</td> <td>23</td> </tr> <tr> <th>Total</th> <td>14</td> <td>21</td> <td>35</td> </tr> </tbody> </table>		Snooker	Darts	Total	Good	4	8	12	Average	10	13	23	Total	14	21	35	At least 3 values correct At least 5 values correct At least 7 values correct All correct	1 1 1 1
	Snooker	Darts	Total																
Good	4	8	12																
Average	10	13	23																
Total	14	21	35																
28.8 (b)	$\frac{4}{35}$		1																
28.9 (a)		2, 3 and 5 correctly placed 11 and 17 correctly placed 21 and 25 correctly placed 1, 6, 9 and 10 correctly placed	1 1 1 1																

Question	Answer	Extra information	Marks
28.9 (b) (i)	$P(P \cap G) = \frac{2}{11}$		1
28.9 (b) (ii)	$P(G') = \frac{7}{11}$		1
28.9 (b) (iii)	$P(P) = \frac{3}{11}$		1
28.10 (a)	WWW, WWL, WLL, LLL	2 correct outcomes	1
		All correct	1
28.10 (b)	$\frac{3}{4}$ or the equivalent		1
28.11	$\frac{125}{457} = 0.27$ (2 dp)	$\frac{1.25}{4.57}$	1
		Correct answer	1