

Fill in the Blanks

Sample Spaces

Sample Space		Probability Questions																										
<p>A fair four-sided spinner is numbered 1 to 4. The spinner is spun twice, and the two scores added together.</p>	<table border="1"> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> </table>		1	2	3	4	1	2	3	4	5	2	3	4	5	6	3	4	5	6	7	4	5	6	7	8	Find the probability that the total score is 7.	
			1	2	3	4																						
		1	2	3	4	5																						
		2	3	4	5	6																						
3	4	5	6	7																								
4	5	6	7	8																								
Find the probability that the total score is greater than 4.																												
Find the probability that the total score is a multiple of 3.																												
<p>A fair four-sided dice is numbered 2, 3, 4 and 5. The spinner is spun twice, and the two scores added together.</p>	<table border="1"> <tr><td></td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>2</td><td>4</td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td>10</td></tr> </table>		2	3	4	5	2	4				3					4					5				10	Find the probability that the total score is 8.	
			2	3	4	5																						
		2	4																									
		3																										
4																												
5				10																								
Find the probability that the total score is less than 7.																												
Find the probability that the total score is a multiple of 4.																												
<p>A fair four-sided dice is numbered 1, 2, 3 and 4. The spinner is spun twice, and the two scores multiplied together.</p>	<table border="1"> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>1</td><td>1</td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td><td>8</td></tr> <tr><td>3</td><td></td><td>6</td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td></tr> </table>		1	2	3	4	1	1				2				8	3		6			4					Find the probability that the total score is even.	
			1	2	3	4																						
		1	1																									
		2				8																						
3		6																										
4																												
Find the probability that the total score is greater than 6.																												
Find the probability that the total score is prime.																												
<p>A fair four-sided spinner is numbered 2, 3, 5 and 7. The spinner is spun and the difference between the two scores recorded.</p>	<table border="1"> <tr><td></td><td>2</td><td>3</td><td>5</td><td>7</td></tr> <tr><td>2</td><td>0</td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td>2</td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td>5</td><td></td><td></td><td></td></tr> </table>		2	3	5	7	2	0				3			2		5					7	5				Find the probability that the difference is zero.	
			2	3	5	7																						
		2	0																									
		3			2																							
5																												
7	5																											
Find the probability that the difference is odd.																												
Find the probability that the difference is two or more.																												
<p>Two fair four-sided spinners are spun, and the scores added together. The first spinner is numbered 1, 2, 3 and 4 and the second spinner is numbered 3, 5, 7 and 9.</p>	<table border="1"> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td></tr> </table>		1	2	3	4	3					5					7					9					Find the probability that the total score is 10.	
			1	2	3	4																						
		3																										
		5																										
7																												
9																												
		$\frac{5}{16}$																										
		$\frac{3}{8}$																										