

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.	$\frac{1}{8}$
		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.	$\frac{5}{8}$																											
Find the probability that the total score is a multiple of 3.	$\frac{5}{16}$																											
<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>5</td><td>6</td><td>7</td></tr> <tr><td>3</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>4</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> <tr><td>5</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> </table>		2	3	4	5	2	4	5	6	7	3	5	6	7	8	4	6	7	8	9	5	7	8	9	10	Find the probability that the total score is 8.	$\frac{3}{16}$
		2	3	4	5																							
	2	4	5	6	7																							
3	5	6	7	8																								
4	6	7	8	9																								
5	7	8	9	10																								
Find the probability that the total score is less than 7.	$\frac{3}{8}$																											
Find the probability that the total score is a multiple of 4.	$\frac{1}{4}$																											
<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>2</td><td>3</td><td>4</td></tr> <tr><td>2</td><td>2</td><td>4</td><td>6</td><td>8</td></tr> <tr><td>3</td><td>3</td><td>6</td><td>9</td><td>12</td></tr> <tr><td>4</td><td>4</td><td>8</td><td>12</td><td>16</td></tr> </table>		1	2	3	4	1	1	2	3	4	2	2	4	6	8	3	3	6	9	12	4	4	8	12	16	Find the probability that the total score is even.	$\frac{3}{4}$
		1	2	3	4																							
	1	1	2	3	4																							
2	2	4	6	8																								
3	3	6	9	12																								
4	4	8	12	16																								
Find the probability that the total score is greater than 6.	$\frac{3}{8}$																											
Find the probability that the total score is prime.	$\frac{1}{4}$																											
<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>1</td><td>3</td><td>5</td></tr> <tr><td>3</td><td>1</td><td>0</td><td>2</td><td>4</td></tr> <tr><td>5</td><td>3</td><td>2</td><td>0</td><td>2</td></tr> <tr><td>7</td><td>5</td><td>4</td><td>2</td><td>0</td></tr> </table>		2	3	5	7	2	0	1	3	5	3	1	0	2	4	5	3	2	0	2	7	5	4	2	0	Find the probability that the difference is zero.	$\frac{1}{4}$
		2	3	5	7																							
	2	0	1	3	5																							
3	1	0	2	4																								
5	3	2	0	2																								
7	5	4	2	0																								
Find the probability that the difference is odd.	$\frac{3}{8}$																											
Find the probability that the difference is two or more.	$\frac{5}{8}$																											
<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>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> </table>		1	2	3	4	3	4	5	6	7	5	6	7	8	9	7	8	9	10	11	9	10	11	12	13	Find the probability that the total score is 10.	$\frac{1}{8}$
		1	2	3	4																							
	3	4	5	6	7																							
5	6	7	8	9																								
7	8	9	10	11																								
9	10	11	12	13																								
e.g. Find the probability that the total is a multiple of 3.	$\frac{5}{16}$																											
e.g. Find the probability that the total score is 10 or more.	$\frac{3}{8}$																											