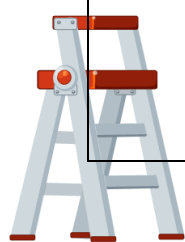

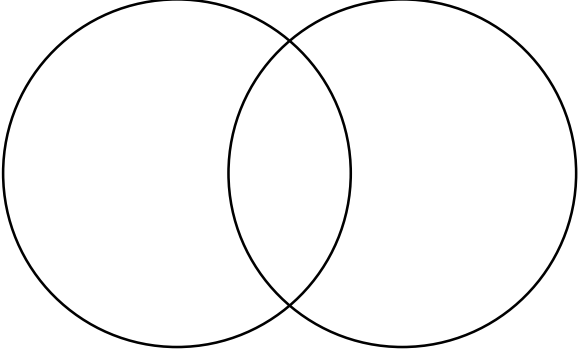
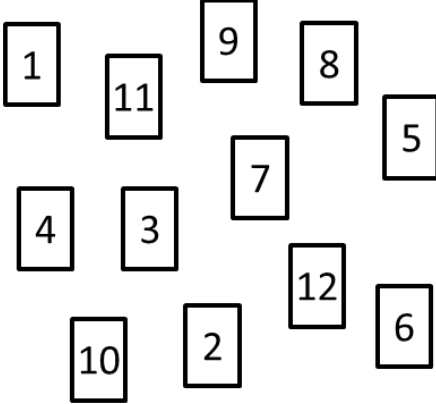


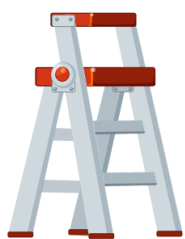


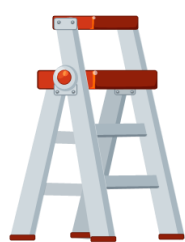
Percentage	I can ...	Prove it!
	<p>Create a tree diagram to solve probability problems</p>	<p>Azriel has ten coloured cubes in a bag. Three of the cubes are red and seven are blue. He removes a cube at random from the bag and notes the colour but <i>does not replace it</i>. He then chooses a second cube at random. Record the information in a tree diagram.</p> <p>What is the probability that Azriel chooses two cubes of same colour?</p>
	<p>I can use and interpret tree diagrams</p>	<p>Brian has drawn a tree diagram to show the probability of him being late to school:</p> <ol style="list-style-type: none"> <li>What is the probability that Brian will be late to school?</li> <li>What is the probability that it will rain <u>and</u> Brian will be late?</li> <li>What is the probability of it not raining <u>and</u> Brian still being late?</li> </ol>
	<p>I can calculate the probability of dependent events</p>	<p>If I pick two balls out of the same bag (without replacing the first ball when I pick the second), what is the probability of the following?</p> <ol style="list-style-type: none"> <li>A red ball and a green ball</li> <li>A yellow ball and a green ball</li> <li>Two red balls</li> <li>Two green balls</li> </ol>
	<p>I can calculate the probability of multiple events</p>	<p>I pick a card out of a deck. What is the probability of picking the following?</p> <ol style="list-style-type: none"> <li>The King of Hearts or Clubs</li> <li>A Diamond which is less than 5</li> <li>A Spade or a Heart</li> <li>A Queen or a King</li> <li>The Ace of Diamonds or the Ace of Spades</li> <li>A Jack, a Queen or a King</li> </ol>
	<p>I can interpret set notation</p>	<div style="border: 1px solid black; padding: 10px;"> </div> <p>1. Write a sentence to explain each diagram and its set notation.</p>



Percentage	I can ...	Prove it!
	<p>18.4 I can use a Venn diagram in probability</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Even number      Prime number</p>  </div> <div style="margin-top: 10px;">  </div> <p>Insert the cards into the correct section of the Venn diagram.</p> <ol style="list-style-type: none"> <li>What is the probability of choosing a number that is even and prime?</li> <li>What is the probability of choosing a number that is even but not prime?</li> <li>What is the probability of choosing a number that is prime but not even?</li> <li>What is the probability of choosing a number that is neither even or prime?</li> </ol>
	<p>20.1 I can compare data sets</p>	<p>Here are the total runs Alvin and Demi scored in their last 8 cricket matches:</p> <p>Alvin: 33    42    50    46    40    52    58 35</p> <p>Demi: 60    75    2    58    5    89    30 102</p> <ol style="list-style-type: none"> <li>Find the mean amount of runs for each person</li> <li>Find the range of runs for each person</li> <li>Using the keywords 'range' and 'mean' explain who you would choose to be on your team and why</li> </ol> <div style="text-align: right;">  </div>



Percentage	I can ...	Prove it!																				
	<p>19.2 I can find an estimate of the mean from grouped data</p>	<p>Estimate the mean times table Rockstars time from the grouped frequency table below:</p> <table border="1"> <thead> <tr> <th>Time in s</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td><math>0 &lt; x \leq 10</math></td> <td>4</td> </tr> <tr> <td><math>10 &lt; x \leq 20</math></td> <td>6</td> </tr> <tr> <td><math>20 &lt; x \leq 30</math></td> <td>11</td> </tr> <tr> <td><math>30 &lt; x \leq 40</math></td> <td>17</td> </tr> <tr> <td><math>40 &lt; x \leq 50</math></td> <td>9</td> </tr> </tbody> </table> <p>Why is this only an estimate?                      What is the modal class?                      Where does the median value lie?</p>	Time in s	Frequency	$0 < x \leq 10$	4	$10 < x \leq 20$	6	$20 < x \leq 30$	11	$30 < x \leq 40$	17	$40 < x \leq 50$	9								
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	<p>21.1 I can plot a scatter graph</p>	<p>1. Plot a scatter diagram to represent the data below:</p> <table border="1"> <thead> <tr> <th>Hours of sleep</th> <th>6</th> <th>9</th> <th>7</th> <th>5</th> <th>8</th> <th>8</th> <th>9</th> <th>6</th> <th>8</th> </tr> </thead> <tbody> <tr> <th>Post assessment score</th> <td>30</td> <td>60</td> <td>45</td> <td>28</td> <td>58</td> <td>59</td> <td>56</td> <td>34</td> <td>55</td> </tr> </tbody> </table> <p>a) What is the relationship between hours of sleep and post assessment scores?                      b) Draw a line of best fit                      c) Use your line of best fit to estimate the post assessment score of a student who has had 8.5 hours sleep</p>	Hours of sleep	6	9	7	5	8	8	9	6	8	Post assessment score	30	60	45	28	58	59	56	34	55
Hours of sleep	6	9	7	5	8	8	9	6	8													
Post assessment score	30	60	45	28	58	59	56	34	55													
	<p>20.2 I can draw and interpret stem and leaf diagrams</p>	<p>                         Girl's scores      Boy's scores                          5 2   0   8 8 9                          9 8 7 6   1   0 5 6 8 9 9                          9 9 8 7 5 3   2   1 4 6 6 7 8                     </p> <p><span style="border: 1px solid red; padding: 2px;">Key: 0 8 means 8</span></p> <ol style="list-style-type: none"> <li>How many Boys scored 8 marks?</li> <li>How many girls scored 19 marks?</li> <li>What was the highest overall score?</li> <li>What's was the lowest overall score?</li> <li>What is the mode score for the boys?</li> <li>What is the mean score for the girls?</li> <li>What is the median score for the boys?</li> <li>What does the stem and leaf diagram tell us about the distribution of scores?</li> </ol>																				



Percentage	I can ...	Prove it!
	<p>18.3 I can use fractions, decimals and % to describe probability</p>	<p>Calculate the probability of the events below, give your answer as a fraction, decimal and percentage:</p> <ul style="list-style-type: none"> <li>a) Pulling a heart card from a full deck</li> <li>b) Flipping a coin and getting a head</li> <li>c) Throwing a dice and getting an even number.</li> <li>d) Rolling a six on a nine-sided dice</li> </ul>
	<p>18.2 I can use the probability scale from 0-1</p> <p>19.1 I can identify continuous and discrete data</p>	<p>Identify whether each of the data sets below is an example of continuous or discrete data:</p> <ul style="list-style-type: none"> <li>1. How tall all of the teachers are?</li> <li>2. How many chairs there are in Miss Cairn's classroom?</li> <li>3. The weight of all the strawberries sold at Wimbledon last year?</li> </ul>
	<p>18.1 I can use the language of probability</p>	<p>Think of 1 event that would go with each of these probability words-</p> <ul style="list-style-type: none"> <li>1. Impossible</li> <li>2. Unlikely</li> <li>3. 50/50 (even chance)</li> <li>4. Likely</li> <li>5. Very likely</li> <li>6. Certain</li> </ul> <p>For Example..... Unlikely- "The world will end tomorrow"</p>

Key Words:

- Event
- Independent
- Set
- Probability
- Continuous
- Discrete
- Scatter
- Correlation
- Relationship
- Mean
- Range
- Even Chance

