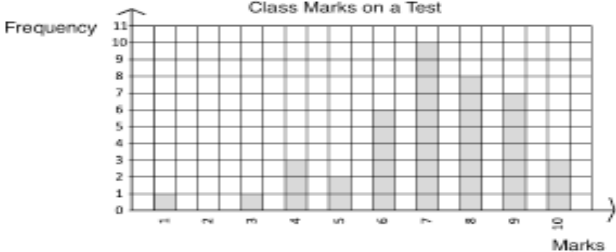
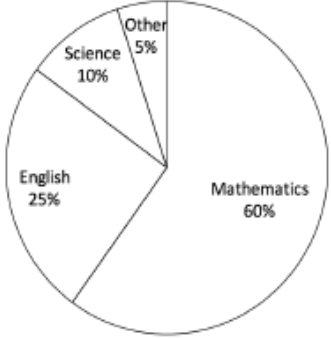
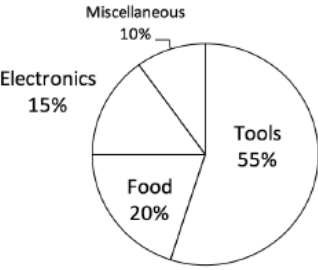


Theme: Algebra (M-08-123) CODE C9	Theme: Algebra (M-08-129) CODE C13
Lesson Title: Solving Linear Equations II	Lesson Title: Solving Linear Equation Story Problems II
<p>Solve the following equations:</p> <p>1. $6x = 12$</p> <p>2. $5y = 5$</p> <p style="text-align: right;">2 minutes</p>	<p>Solve the following word problem:</p> <p>Three more than twice a certain number is nineteen. What is the number?</p> <p style="text-align: right;">3 minutes</p>
Theme: Algebra (M-08-124) CODE C10	Theme: Algebra (M-08-130) CODE C14
Lesson Title: Solving Linear Equations III	Lesson Title: Linear Equation Practice
<p>Solve:</p> $2(x + 1) = 6$ <p style="text-align: right;">2 minutes</p>	<p>The ages of 4 friends are x, $x + 3$, $x - 1$ and $x + 2$.</p> <p>a. Write an expression for the combined age of the friends. b. If their combined age is 44 years, what is the age of the youngest friend?</p> <p style="text-align: right;">3 minutes</p>
Theme: Algebra (M-08-126) CODE C11	Theme: Algebra (M-08-131) CODE C15
Lesson Title: Verifying Solutions	Lesson Title: Introduction to the Cartesian Plane
<p>Is $x = 7$ a solution to the equation $3x + 10 = x - 4$?</p> <p style="text-align: right;">3 minutes</p>	<p>Sketch a Cartesian plane with axes from -10 to $+10$. It is not necessary to measure intervals on the axes with a ruler.</p>
Theme: Algebra (M-08-128) CODE C12	Theme: Algebra (M-08-132) CODE C16
Lesson Title: Solving Linear Equations Story Problems I	Lesson Title: Identifying Points in the Cartesian Plane
<p>Solve the following word problem:</p> <p>Fatu is a baker. She is going to the market to buy sugar. Sugar costs Le 2,000.00 per cup. She has Le 8,000.00 to spend on sugar.</p> <p>a. Write a linear equation for the story, where s is cups of sugar. b. Solve the linear equation to find how many cups of sugar Fatu can buy.</p> <p style="text-align: right;">3 minutes</p>	<p>Identify which quadrant each of the following points is in:</p> <p>a. $(-3, 2)$ b. $(-5, -7)$ c. $(1, -3)$</p> <p style="text-align: right;">3 minutes</p>

Theme: Algebra (M-08-133) CODE C17	Theme: Statistics and Probability (M-08-138) CODE C21																										
Lesson Title: Plotting Points on the Cartesian Plane	Lesson Title: Bar Charts																										
<p>Draw a Cartesian plane and plot the following points: (1, 3), (0, 9), (-2, -4)</p> <p style="text-align: right;">2 minutes</p>	<p>The table below shows the marks of pupils in a test. No pupil scored lower than 40% or higher than 85%. Draw a bar chart for the information using squared paper or your own paper.</p> <table border="1" data-bbox="794 331 1447 427"> <thead> <tr> <th>Marks</th> <th>40%</th> <th>45%</th> <th>50%</th> <th>55%</th> <th>60%</th> <th>65%</th> <th>70%</th> <th>75%</th> <th>80%</th> <th>85%</th> </tr> </thead> <tbody> <tr> <td>Number of pupils</td> <td>1</td> <td>2</td> <td>4</td> <td>3</td> <td>0</td> <td>2</td> <td>5</td> <td>8</td> <td>1</td> <td>2</td> </tr> </tbody> </table> <p style="text-align: right;">3 minutes</p>	Marks	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	Number of pupils	1	2	4	3	0	2	5	8	1	2				
Marks	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%																	
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Theme: Algebra (M-08-134) CODE C18	Theme: Statistics and Probability (M-08-139) CODE C22																										
Lesson Title: Table of Values	Lesson Title: Line Graphs																										
<p>Complete the table of values for the linear equation $y = -x - 3$</p> <table border="1" data-bbox="134 766 630 891"> <thead> <tr> <th>x</th> <th>-2</th> <th>-1</th> <th>0</th> <th>1</th> <th>2</th> </tr> </thead> <tbody> <tr> <th>y</th> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: right;">2 minutes</p>	x	-2	-1	0	1	2	y						<p>The table below shows daily temperatures for London, recorded for 6 days in degrees Celsius. Display the data in a line graph. Use 15 to 25 degrees to mark the y-axis.</p> <table border="1" data-bbox="804 804 1415 884"> <thead> <tr> <th>Day</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> </thead> <tbody> <tr> <td>Temperature ($^{\circ}\text{C}$)</td> <td>17</td> <td>19</td> <td>18</td> <td>16</td> <td>21</td> <td>23</td> </tr> </tbody> </table> <p style="text-align: right;">3½ minutes</p>	Day	1	2	3	4	5	6	Temperature ($^{\circ}\text{C}$)	17	19	18	16	21	23
x	-2	-1	0	1	2																						
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Theme: Algebra (M-08-135) CODE C19	Theme: Statistics and Probability (M-08-140) CODE C23																										
Lesson Title: Graphing a Line	Lesson Title: Interpreting Charts and Graphs																										
<p>Complete the table of values for the linear equation $y = -2x + 1$.</p> <p>Plot each point on the given Cartesian plane.</p> <table border="1" data-bbox="113 1370 762 1444"> <thead> <tr> <th>x</th> <th>-2</th> <th>-1</th> <th>0</th> <th>1</th> <th>2</th> </tr> </thead> <tbody> <tr> <th>y</th> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: right;">2½ minutes</p>	x	-2	-1	0	1	2	y						<p>Use the bar chart to answer the questions.</p>  <p>a. What was the lowest score on the test? b. If pupils need 7 marks or higher to pass, how many pupils passed the test?</p> <p style="text-align: right;">2 minutes</p>														
x	-2	-1	0	1	2																						
y																											
Theme: Statistics and Probability (M-08-136) CODE C20	Theme: Statistics and Probability (M-08-141) CODE C24																										
Lesson Title: Data Collection	Lesson Title: Mean																										
<p>The coach took the height measurements of the football players to buy them new uniforms. Their heights (in cm) are: 178, 170, 167, 172, 173, 177, 172, 170, 172, 173, 177, 169, 170, 168, 172, 173.</p> <p>a. Write the heights of the players in ascending order. b. What is the height of the tallest player? c. What is the height of the shortest player? d. If players taller than 175 cm wear a large uniform, how many large uniforms are needed?</p> <p style="text-align: right;">3 minutes</p>	<p>The number of goals scored by a team in 9 football matches are as follows: 3, 5, 7, 7, 8, 8, 8, 11, 15.</p> <p>Calculate the mean number of goals scored.</p> <p style="text-align: right;">2 minutes</p>																										

Theme: Statistics and Probability (M-08-142) CODE C25	Theme: Statistics and Probability (M-08-145) CODE C29														
Lesson Title: Median	Lesson Title: Pie Chart Angles														
<p>The shoe sizes of five pupils are 10, 9, 10, 11 and 8. Find the median shoe size.</p> <p style="text-align: right;">1½ minutes</p>	<p>Find the combined sector angle for Mathematics and English on the pie chart below:</p> 														
Theme: Statistics and Probability (M-08-143) CODE C26	Theme: Statistics and Probability (M-08-146) CODE C30														
Lesson Title: Mode and Range	Lesson Title: Creating Pie Charts														
<p>John is a doctor. Today, he treated 10 children. He recorded the weight of each child in kilograms, listed below.</p> <p>Find the mode and range of their weights.</p> <p style="text-align: center;">14, 20, 17, 21, 15, 13, 20, 19, 15, 12</p> <p style="text-align: right;">2 minutes</p>	<p>The cost incurred on infrastructure development by a mining company is as follows:</p> <p>Wages: 48% Taxes: 12% Material: 20% Transport: 20%.</p> <p>Show this information in a pie chart.</p> <p>Hint: Use sector angles for a more accurate diagram.</p> <p style="text-align: right;">2½ minutes</p>														
Theme: Statistics and Probability (M-08-144) CODE C27	Theme: Statistics and Probability (M-08-147) CODE C31														
Lesson Title: Interpreting Pie Charts	Lesson Title: Creating Stem Diagrams														
<p>Aminata earned Le 2,000,000.00 by selling goods in her shop. The pie chart below shows the percentage that Aminata earned this week in each category of goods.</p>  <p>How much did Aminata earn from electronics?</p> <p style="text-align: right;">1½ minutes</p>	<p>The IQ scores of 5 female mathematicians are:</p> <p>170 164 159 172 154</p> <p>Display the data in a stem diagram.</p> <p style="text-align: right;">2 minutes</p>														
Theme: Statistics and Probability (M-08-144) CODE C28	Theme: Statistics and Probability (M-08-148) CODE C32														
Lesson Title: Interpreting Pie Charts	Lesson Title: Interpreting Stem Diagrams														
<p>Please refer to the information and diagram in CODE C27 to answer the following questions:</p> <p>a. From which category of goods did Aminata earn the least amount of money?</p> <p>b. How much more did Aminata earn from tools than from electronics?</p> <p style="text-align: right;">3½ minutes</p>	<p>Martin is a driver. He recorded the amount of petrol that he used each day for 10 days in the stem diagram below. Find the mean, mode, and range of the data.</p> <table border="1" data-bbox="805 1877 1093 2116"> <thead> <tr> <th colspan="2">PETROL USED</th> </tr> <tr> <th>Stem</th> <th>Leaf</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>8, 9</td> </tr> <tr> <td>1</td> <td>4, 7</td> </tr> <tr> <td>2</td> <td>3, 6, 6</td> </tr> <tr> <td>3</td> <td>0, 4</td> </tr> <tr> <td>4</td> <td>2</td> </tr> </tbody> </table> <p style="text-align: right;">3½ minutes</p>	PETROL USED		Stem	Leaf	0	8, 9	1	4, 7	2	3, 6, 6	3	0, 4	4	2
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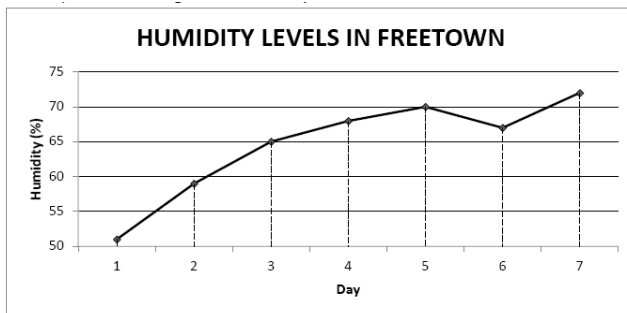
Lesson Title: Choosing a Graph or Chart

Dr Mkhize wants to create a chart or graph to show the patients admitted to the hospital last week. There were 20 men, 10 women, 10 boys and 20 girls admitted to the hospital. Display this information for her.

2½ minutes

Lesson Title: Practice Making Statistical

The graph below gives the average high temperature in Freetown. Find the mean and median for the data in %.



2 minutes