

	National Curriculum Statement	All students																																			
		Fluency	Reasoning	Problem Solving																																	
Statistics	<p>Calculate the mean as an average.</p>	<ul style="list-style-type: none"> Calculate the mean of these sets of numbers: <ol style="list-style-type: none"> 3, 6, 8, 2, 4, 12 7, 13, 16, 9, 8 Hassan is his school's cricket team's top batsman. His scores over the year are: <p style="text-align: center;">134, 60, 17, 63, 38, 84, 11</p> <p>Calculate the mean number of runs Hassan scored.</p> <ul style="list-style-type: none"> Four children have taken two tests, one English and one Maths. <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>NAME</th> <th>MATHS</th> <th>ENGLISH</th> </tr> </thead> <tbody> <tr> <td>Ali</td> <td>67</td> <td>59</td> </tr> <tr> <td>Sid</td> <td>53</td> <td>61</td> </tr> <tr> <td>Pam</td> <td>66</td> <td>57</td> </tr> <tr> <td>John</td> <td>72</td> <td>75</td> </tr> </tbody> </table> <p>Calculate the mean:</p> <ol style="list-style-type: none"> Maths score English score score overall score for each child over both tests 	NAME	MATHS	ENGLISH	Ali	67	59	Sid	53	61	Pam	66	57	John	72	75	<ul style="list-style-type: none"> Six children have taken a mental maths test. The mean score was 15 out of 20 Can you find the missing score in the list of scores below? 18 16 17 13 12 ?? Sam uses a calculator to find the mean of 9, 7, 5, 9 and 13 He writes the answer 43 Is Sam correct? If not, can you work out where he has gone wrong? Jasmine says, <div style="border: 1px solid blue; border-radius: 15px; padding: 10px; background-color: #4a7ebb; color: white; text-align: center; margin: 10px 0;"> "The mean average is always a whole number." </div> Do you agree? Prove it. 	<ul style="list-style-type: none"> Can you make up a set of five numbers which have a mean of 3.6? Can you find more than one combination of five numbers? Here is a line graph. Can you write three different ways someone could find the mean from the graph? <div style="text-align: center;"> <table border="1" style="margin: 10px auto; text-align: center;"> <caption>Growth of Lisa's Collection</caption> <thead> <tr> <th>Month</th> <th>music CDs</th> <th>books</th> </tr> </thead> <tbody> <tr> <td>Jan</td> <td>15</td> <td>10</td> </tr> <tr> <td>Feb</td> <td>18</td> <td>12</td> </tr> <tr> <td>Mar</td> <td>20</td> <td>18</td> </tr> <tr> <td>Apr</td> <td>22</td> <td>20</td> </tr> <tr> <td>May</td> <td>25</td> <td>30</td> </tr> </tbody> </table> </div> <p>Using the questions you wrote about the mean, could you write a mark scheme for teachers marking the questions giving them all the correct answers?</p> <ul style="list-style-type: none"> A gym has two sets of weights; 3kg and 8kg. Two 3kg weights and three 8kg weights have a mean weight of 6kg. Can you find any other combinations of 3kg and 8kg weights that have a mean weight of 6kg? 	Month	music CDs	books	Jan	15	10	Feb	18	12	Mar	20	18	Apr	22	20	May	25	30
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