



Global Teacher Empowerment Network GTEN

Mean, Median, Mode and Range



RESOURCES REQUIRED: *This Worksheet to fill in during the workshop, Paper, Pencil.*

1. Work out the mean, median, mode and range of 3, 3, 3, 5 and 6.

2.

<p>A1</p> <p style="text-align: center;">Mean</p> <p style="text-align: center;">-1 5 4 3 4</p>	<p>A2</p> <p style="text-align: center;">Mean</p> <p style="text-align: center;">5 3,5 3 5 1</p>	<p>A3</p> <p style="text-align: center;">Mean</p> <p style="text-align: center;">7 7 5 -1 7</p>
<p>B1</p> <p style="text-align: center;">Mode</p> <p style="text-align: center;">3 5 7 3 3 5</p>	<p>B2</p> <p style="text-align: center;">Mode</p> <p style="text-align: center;">5 3,5 -1 3,5 3</p>	<p>B3</p> <p style="text-align: center;">Mode</p> <p style="text-align: center;">5 4 5 5 3,5</p>
<p>C1</p> <p style="text-align: center;">Median</p> <p style="text-align: center;">1 7 1 3 4 5</p>	<p>C2</p> <p style="text-align: center;">Median</p> <p style="text-align: center;">7 5 7 1 -1 -3</p>	<p>C3</p> <p style="text-align: center;">Median</p> <p style="text-align: center;">7 7 3 3 5</p>
<p>D1</p> <p style="text-align: center;">Range</p> <p style="text-align: center;">4 3 1 4 3</p>	<p>D2</p> <p style="text-align: center;">Range</p> <p style="text-align: center;">1 1 3,5 3 0</p>	<p>D3</p> <p style="text-align: center;">Range</p> <p style="text-align: center;">1 -1 3,5 4 3</p>

To make the task easier you (or your learners) can cut out the cards.

Work out the mean, median, mode or range of the numbers on the card.

The answer will be 3 or 3,5 or 5.

Place the card in the corresponding column under one of the headings 3; 3,5 or 5

3.

FOR YOUNGER FOR OLDER

1	Abe	Buk	Chris	Dudu	Erin
	2	8	10	14	16

2	Sam	Mzu	Bulie
	10	12	14




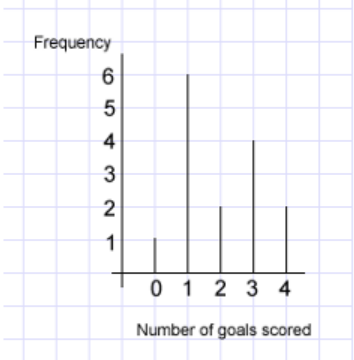
Can you find a way for one child to leave one group and join another so that the mean age drops in the group left and rises in the group joined?

Work out the mean age of Group 1 and the mean age of Group 2.

Find some solutions to this problem.

4. MATCH THE MATCHES

Use the tables below to record the calculations.

<p style="background-color: #d9ead3; padding: 5px;">Work out the Mean, Median & Mode in each set of data</p> <p>The mode of the number of goals scored by Beta Rovers is one less than the mean number of goals they scored</p> <p>The mean number of goals scored by Beta Rovers is equal to the median number of goals they scored</p>	 <p style="font-size: small;">A pie chart to show the number of goals scored in fifteen football matches</p>	<p style="background-color: #d9ead3; padding: 5px;">Match the data to the teams and explain your answers.</p> <p>The mode number of goals scored by Alpha United is one more than the mean number of goals they scored</p> <p>The mean number of goals scored by Alpha United is equal to the median number of goals they scored</p>																						
<div style="display: flex; align-items: center;"> <table style="margin-right: 20px;"> <tr><td>0 goals</td><td></td></tr> <tr><td>1 goal</td><td></td></tr> <tr><td>2 goals</td><td></td></tr> <tr><td>3 goals</td><td></td></tr> <tr><td>4 goals</td><td></td></tr> </table> <p style="font-size: x-small;">A pictogram to show the number of goals scored in fifteen football matches</p> <div style="margin-left: 20px; font-size: x-small;"> represents 2 matches </div> </div>	0 goals		1 goal		2 goals		3 goals		4 goals			<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 50%;">Number of goals</th> <th style="width: 50%;">Tally</th> </tr> </thead> <tbody> <tr><td>0</td><td> </td></tr> <tr><td>1</td><td> </td></tr> <tr><td>2</td><td> </td></tr> <tr><td>3</td><td> </td></tr> <tr><td>4</td><td> </td></tr> </tbody> </table>	Number of goals	Tally	0		1		2		3		4	
0 goals																								
1 goal																								
2 goals																								
3 goals																								
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Number of goals	Tally																							
0																								
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3																								
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Results for Alpha United Represented in the tally chart and the pictogram			
Number of goals	Frequency - number of matches	Total number of goals	Angle in pie chart
Mode _ goals	Mean _	Median _	

Results for Beta Rovers Represented in the pie chart and the frequency graph			
Number of goals	Frequency - number of matches	Total number of goals	Angle in pie chart
Mode _ goal	Mean _	Median _	