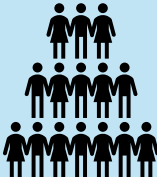
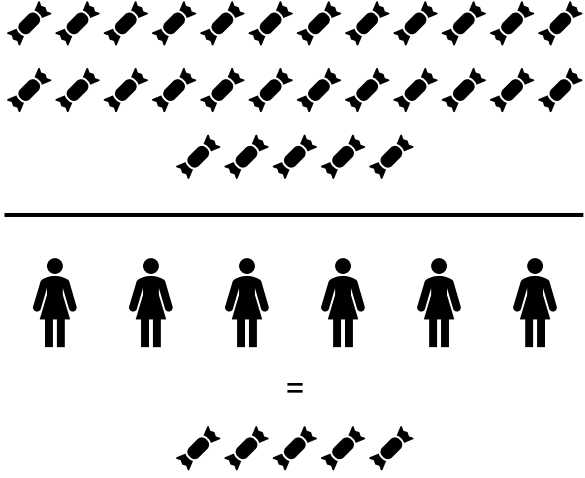
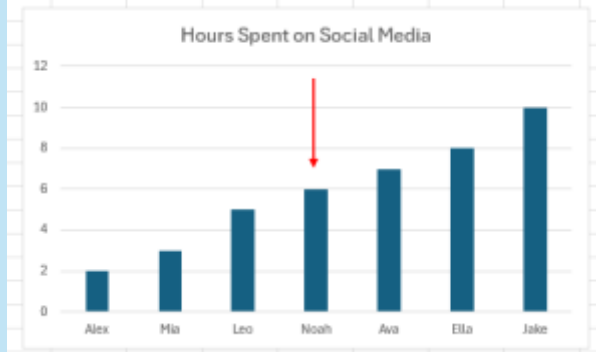
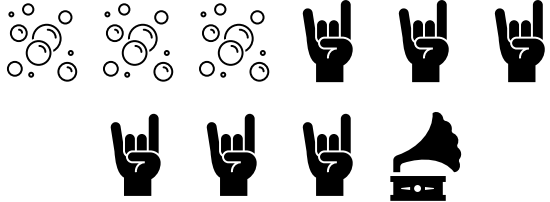


MATHEMATICAL VOCABULARY: STATISTICS

Word	What does it mean?	Example	Visual prompt
Average	<p>An average is a number that shows what is typical for a group of numbers. There are different types of averages.</p> <p>The three most common are the mean, the median and the mode. They help describe the data in different ways.</p>	<ul style="list-style-type: none"> • Mean: Add all the numbers together and divide by how many there are. • Median: The middle number when the numbers are put in order. • Mode: The number that appears the most often. 	
Mean	<p>The mean is the average of a set of numbers. You calculate it by adding up all the numbers in the group, then dividing the total by how many numbers there are. The mean helps us understand what it would look like if the data was "evened out" and everyone had the same amount.</p>	<p>If the five friends ate sweets like this:</p> <ul style="list-style-type: none"> • Alex: 5 sweets • Ben: 8 sweets • Charlie: 7 sweets • Daisy: 4 sweets • Ella: 6 sweets <p>Their mean was 6 sweets. In other words, if the 30 sweets (total) were shared equally among the five friends, each</p>	

		person would have 6 sweets . The mean is like "balancing" the data so everyone ends up with the same amount.																	
Median	The median is the middle value in a data set when all values are arranged from smallest to largest in order of size.	Seven friends measured how much time they spent on social media a day. <ul style="list-style-type: none">• Alex: 2 hours• Mia: 3 hours• Leo: 5 hours• Noah: 6 hours• Ava: 7 hours• Ella: 8 hours• Jake: 10 hours Once the data has been sorted in order, find the middle value. 2, 3, 5, 6, 7, 8, 10. Since there are 7 numbers (an odd amount), the middle one is the 4th value. Median = 6 hours.	 <table><caption>Hours Spent on Social Media</caption><thead><tr><th>Friend</th><th>Hours</th></tr></thead><tbody><tr><td>Alex</td><td>2</td></tr><tr><td>Mia</td><td>3</td></tr><tr><td>Leo</td><td>5</td></tr><tr><td>Noah</td><td>6</td></tr><tr><td>Ava</td><td>7</td></tr><tr><td>Ella</td><td>8</td></tr><tr><td>Jake</td><td>10</td></tr></tbody></table>	Friend	Hours	Alex	2	Mia	3	Leo	5	Noah	6	Ava	7	Ella	8	Jake	10
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		<p>This means that half the friends spent less than 6 hours, and half spent more than 6 hours on social media.</p> <p>If there were an even number of friends, we would take the average of the two middle numbers.</p>	
Mode	<p>The mode is the value that occurs most often in a data set. It is possible to have one mode, several modes or no modes.</p>	<p>You record how many times you listened to different genres of music in a week:</p> <ul style="list-style-type: none"> • Pop: 3 times • Rock: 5 times • Classical: 1 time <p>To find the mode look for the genre that occurs most often:</p> <p>"Pop" appears 3 times, which is more frequent than any other genre. The mode is Pop, as it's the genre listened to the most during the week.</p>	
Range	<p>The spread of values in a data set is known as the range. It is</p>	<p>You and your friends compare how many hours you spent on</p>	

the difference between the smallest and largest values in a data set.

your phones yesterday. Here are the numbers:
2, 5, 7, 3, 6, 4, 8
To find the range:
Find the highest number → The biggest number is 8.
Find the lowest number → The smallest number is 2.
Subtract the smallest from the biggest →
 $8 - 2 = 6$
So, the range is 6 hours.

