

Luna's Space Adventure

Grade 5 · Mean, median, mode and range · 5.PS.2

Name _____

Date _____



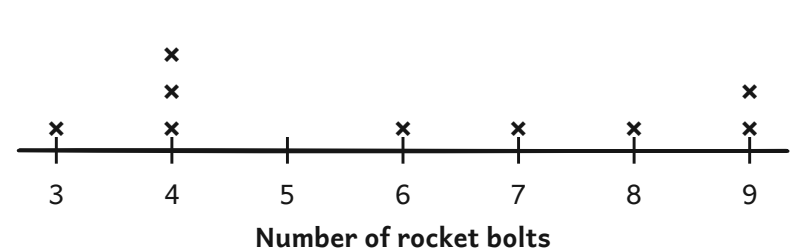
Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Four ways to sum up data

Mean: share the total equally. Median: the middle, in order. Mode: most often. Range: greatest – least.

Data	Mean	Median	Mode	Range
45, 24, 59, 28, 59				
48, 16, 45, 16, 46, 59, 22				
29, 29, 44, 38, 20				
30, 39, 17, 55, 29, 55, 13				

From a line plot Each × is one friend and how many rocket bolts they found.



The mean is _____

The median is _____

The mode is _____

The range is _____

Story time

- ① Max, Zed, Orion and Nova have 18, 8, 18 and 12 moon rocks. They share them out equally. How many moon rocks does each friend get?

_____ moon rocks

- ② Max found 8, 13, 16 and 15 star stickers on four days. How many must Max find on day 5 for a mean of 12 a day?

_____ star stickers

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ANSWER KEY



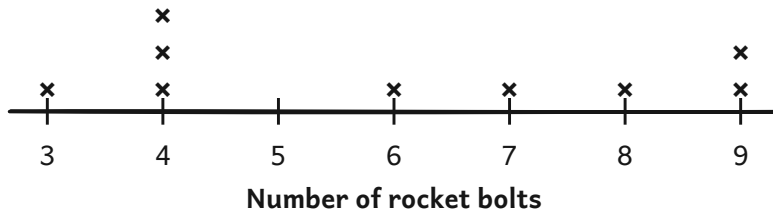
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Four ways to sum up data

Mean: share the total equally. Median: the middle, in order. Mode: most often. Range: greatest – least.

Data	Mean	Median	Mode	Range
45, 24, 59, 28, 59	43	45	59	35
48, 16, 45, 16, 46, 59, 22	36	45	16	43
29, 29, 44, 38, 20	32	29	29	24
30, 39, 17, 55, 29, 55, 13	34	30	55	42

From a line plot Each × is one friend and how many rocket bolts they found.



The mean is 6
The median is 6
The mode is 4
The range is 6

Story time

- ① Max, Zed, Orion and Nova have 18, 8, 18 and 12 moon rocks. They share them out equally. How many moon rocks does each friend get?

$$(18 + 8 + 18 + 12) \div 4 = 14$$

14 moon rocks

- ② Max found 8, 13, 16 and 15 star stickers on four days. How many must Max find on day 5 for a mean of 12 a day?

$$5 \times 12 = 60, \text{ then } 60 - 8 - 13 - 16 - 15 = 8$$

8 star stickers

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GUIDE

1 What this sheet practises

Four ways to sum up a set of numbers: the mean (a fair share), the median (the middle), the mode (the most common) and the range (the spread).

2 A problem from the sheet, worked out

Four ways to sum up data

Mean: share the total equally. Median: the middle, in order. Mode: most often. Range: greatest – least.

Data	Mean	Median	Mode	Range
45, 24, 59, 28, 59	43	45	59	35
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29, 29, 44, 38, 20	32	29	29	24
30, 39, 17, 55, 29, 55, 13	34	30	55	42

How: Mean: add them all, divide by how many. Median: put them in order and take the middle, or halfway between two middles. Mode: the most common. Range: greatest – least.

3 Words to know

mean the total shared out equally

median the middle number when put in order

mode the number that appears most often

range the greatest minus the least

4 Watch for

- Finding the median without putting the numbers in order first.
- Dividing the total by the wrong count, like 4 when there are 5 numbers.
- Giving the greatest number as the range instead of greatest minus least.

5 Where it fits

BEFORE

5.MD.B.2

Make line plots with fractional measurements and use them to solve problems.

THIS SHEET

MA.5.DP.1.2

Find the mean, median, mode and range of data in tables or line plots.

6 Helping at home

Track something for a week, like minutes of reading each day. Then find the mean, median, mode and range together.