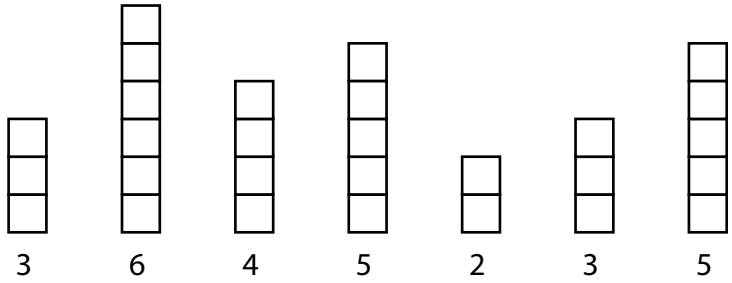
Mean, Median, and Mode

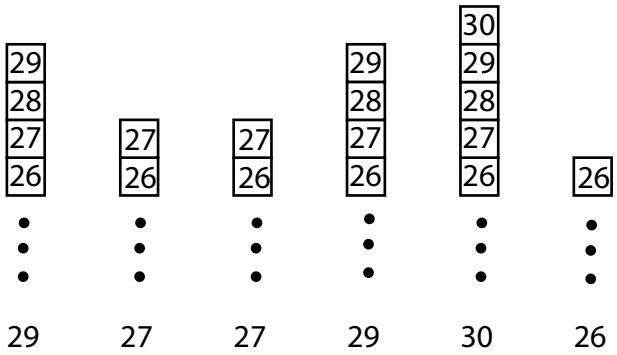
1. Find the mean of the numbers 3, 6, 4, 5, 2, 3, 5 by making all the towers the same height.



2. Find the mean of the numbers 3, 6, 4, 5, 2, 3, 5 by adding them and then dividing by how many numbers there are:

$$\frac{3+6+4+5+2+3+5}{7} =$$

3. Find the mean of the numbers 29, 27, 27, 29, 30, 26 by making all the towers the same height.



4. Find the mean of the numbers 29, 27, 27, 29, 30, 26 by adding them and then dividing by how many numbers there are.

5. Find the mean of the numbers 55, 47, 51, 45, 52, 53, 51, 49, 47, 47, 51 by adding and subtracting the same amount until all numbers are equal.

55 47 51 45 52 53 51 49 47 47 51

6. Find the mean of the following lists of numbers. Use any method.

   (a) 15, 14, 15, 11, 14, 13, 17, 13

   (b) 60, 80, 130, 20, 110

   (c) 77, 63, 81, 84, 100, 69

   (d) 43, 39, 39, 48, 39, 36, 37, 39, 40

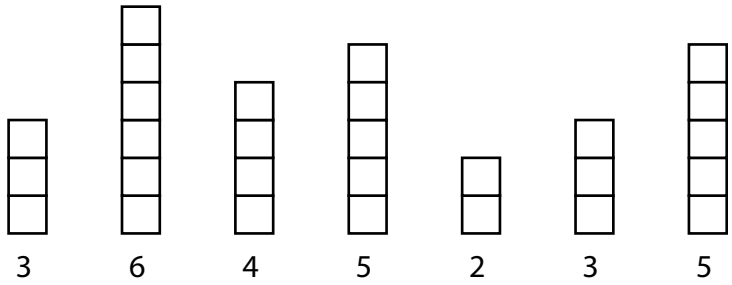
7. Find a number to fill in the blank so that the mean of all seven numbers will be 71.

70, 70, 70, 70, 70, 70, _____

8. Zachary reads 14 pages every day for 5 days. How many pages will he need to read on the 6th day so that he will have read an average (mean) of 15 pages in 6 days?

9. Find the mean (average) of the numbers 4, 3, 3, 1, 5, 2, 3 by moving squares until all the towers are the same height.

Mean: _____



10. Find the mean (average) of the numbers 7, 6, 6, 4, 8, 5, 6 by adding and then dividing. Show your work.

Mean: _____

11. Find the mean (average) of the numbers 28, 30, 31, 32, 29 by adding and subtracting the same amount until all the numbers are equal.

Mean: _____

28 30 31 32 29

12. When Joe was asked to find the mode of the numbers 3, 3, 3, 7, 2, 10, 3, he gave the answer 10. Explain to Joe what he did wrong and how he should find the mode correctly.

13. When Joe was asked to find the median of the numbers 2, 5, 3, 2, 7, 9, 4, he gave the answer 2. This is Joe's work:

~~2~~ ~~5~~ ~~3~~ [2] ~~7~~ ~~9~~ ~~4~~

Explain to Joe what he did wrong and how he should find the median correctly.

14. (a) If we want to find out which number is in the middle of a list of numbers, should we find the mean, the median, the mode, or the range? Answer:_____

(b) If we want to find out how far spread apart numbers in a list are, should we find the mean, the median, the mode, or the range? Answer:_____

(c) If we want to find out which number the numbers in a list would level out to, should we find the mean, the median, the mode, or the range? Answer:_____

(d) If we want to find out which number there is the most of in a list, should we find the mean, the median, the mode, or the range? Answer:_____

15. Find a number to fill in the blank so that the mean of all seven numbers will be 60.

59, 59, 59, 59, 59, 59, _____

16. Clevere runs 1 mile a day every day for 5 days. How many miles will he need to run on the 6th day so that he will have run an average (mean) of 2 miles a day in 6 days?

17. Mr. Frank earned the following amounts in six days:

$114, $107, $109, $105, $120, $105

(a) Find the average (mean) amount that Mr. Frank earned. Show your work.
Mean: _____

(b) Find the median of the amounts that Mr. Frank earned. Show your work.
Median: _____

(c) Find the mode of the amounts that Mr. Frank earned. Mode: _____

(d) Find the range of the amounts that Mr. Frank earned. Range: _____