Mean and Mode

<u>Mean:</u> The mean is the average of the numbers. To calculate: Just add up all the numbers, then divide by how many numbers there are.

Example: what is the mean of 2, 7 and 9?
Add the numbers: 2 + 7 + 9 = 18
Divide by how many numbers (i.e. we added 3 numbers): 18 ÷ 3 = 6
So the Mean is 6

<u>Mode:</u> The number which appears most often in a set of numbers.

Example: in {6, 3, 9, 6, 6, 5, 9, 3} the Mode is 6 (it occurs most often).

<u>**Questions:**</u>

1. Find the mean of each set of data.
   a. 3, 4, 4, 5 : 16 Å 4 = 4 ……. So, the mean is 4.
   b. 1,7, 3, 3, 1
   c. 2,2, 6, 1, 3, 4
   d. 2, 3, 7, 4, 4, 8, 9, 12, 4, 7, 3
   e. 24, 34, 44, 31, 39, 32

2. Find the mode of each set of data.
   a. 3, 4, 4, 5
   b. 1,7, 3, 3, 1
   c. 2,2, 6, 1, 3, 4
   d. 2, 3, 7, 4, 4, 8, 9, 12, 4, 7, 3

3. Here are the weekly allowances of 10 Grade 5 students: 4, 6, 8, 10, 15, 5, 7, 10, 5, 10
   a. What mean allowance?
   b. What is the mode of the allowance?

    c.   Suppose you add 14 and 20 to the list, what is the new mean? The new mode?

4. The weekly salaries of six employees at Starbucks are $140, $220, $90, $180, $140, $200. For these six salaries, find: (a) the mean (b) the mode

5. Clayton plays basketball on a team. He has played three games so far. In the first game, he scored 10 points. In the second game, he scored 14 points. In the third game, he scored 6 points. What is Clayton's average points per game?

6. Harley read 5 books in January, 8 books in February, 4 books in March, and 7 books in April. What is the average number of books Harley read per month?

7. Calculate the mean and the mode for the following sets of numbers:
    a. 7, 9, 16, 16, 17, 12, 9, 10, 6, 8
    b. 8, 8, 15, 10, 15, 6, 15
    c. 8, 10, 19, 13, 10
    d. 9, 13, 19, 17, 11, 6, 14, 16, 12
    e. 11, 7, 13, 8, 18, 7, 12, 6, 17