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## Finding the Mode (Most Common Score) Data Calculations:

Looking at any data display graph can tell you a lot about the data, but there are some calculations you can do that will give you more information about the data. The mean and median are two calculations you

can do, but sometimes the most common score is helpful to know.

The most common score is called the mode.

From a data display you may be able to work out the mode.

## Example:

At a local shoe shop, the owner records the size of each pair of shoes sold. This data is shown in the column graph.

Answer: The mode or most common size of shoe sold was size 8. the tallest column in the graph.

> Note: There may be more than one mode, or NO mode if all scores are different.



Example:

For the scores

4, 5, 5, 6, 7, 7, 8

For the scores

2, 3, 5, 6, 7, 8, 9

both 5 & 7 are modes. there is no mode



## Task 19

Find the mode (most common score) for each list of scores below. (Remember there may not be one)

- 1. 1, 2, 3, 7, 6, 3
- 6, 8, 7, 6, 5, 9, 10
- 6, 9, 7, 5, 6, 3, 8, 7

- 4. 6, 4, 8, 3, 7, 11, 12, 9
- 5. 6, 8, 10, 9, 10, 8, 9, 5
- 6. 7, 6, 9, 2, 7, 5, 3, 9, 6, 7

- 7. 3, 6, 8, 2, 4, 6, 9, 3, 2, 4
- 6, 9, 5, 2, 3, 7, 6, 9, 4, 6
- 1, 6, 0, 8, 7, 9, 4, 5, 3, 2 9.



Every time a T-shirt is sold, its size is noted. During the morning these T-shirts were sold.

size 8, size 10, size 8, size 8, size 10, size 12, size 10, size 12, size 14, size 10, size 8, size 10, size 12, size 10, size 12, size 12, size 8, size 10

- 10. Organise the data into a tally chart.
- Use your tally chart to find the **mode** or most common size of T-shirt sold. 11.
- 12. Why would it be helpful for a shop-keeper to record this information?



During the weekend toll calls are only \$5.00 and you can talk for as long as you like. In the box below are the length of twenty tolls to the nearest minute.



15, 16, 20, 14, 16, 22, 36, 42, 20, 32, 45, 46, 37, 34, 26, 14, 20, 36, 24, 36

Find the mode or most common time for a toll call.

