

## MATHEMATICAL LITERACY – GRADE 12 NOTES

### CHAPTER 6

#### 6.1 Interpreting and analysing data

Purposes of graphs:

- a way of exploring the relationships in data
- a way of displaying and reporting data
- making it easier to report patterns and relationships, shapes of distributions and trends.

Any graph used to report findings should show:

- the significant features and findings of the investigation in a fair and easy-to-read way
- the underlying structure of an investigation in terms of the relationships between and within the variables
- the dependent variable on the horizontal ( $x$ ) axis and the independent variable on the vertical ( $y$ ) axis.

#### Types of graphs

We have the following types of graphs:

- Line graph
- Bar graph
- Histogram
- Scatter plot
- Pie chart
- Box and whisker plot

#### 6.1.1 Line graphs

In data handling we use line graphs to show the relationship between two quantities. A line graph is formed by using straight lines to join data points which have been mapped on a grid. It is used to show the change of information over time.

#### Worked example 10

The table below shows the average number of minutes per month that Jabu spent watching TV from January to November last year.

| Month                       | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Daily TV viewing time (min) | 108 | 103 | 108 | 120 | 115 | 122 | 116 | 105 | 110 | 105 | 104 |

- Plot this data on a set of axes.
- Can you observe any trends or patterns in the data? Give some possible reasons for these trends.
- Would you be able to represent this data on a bar graph?
- What is the advantage of using a line graph to show this information?

# Grade 12 Mathematical Literacy 2013 Study Guide

**D Siedentop**



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*Teaching and Learning Secondary School Mathematics* Ann Kajander, Jennifer Holm, Egan J Chernoff, 2018-10-24 This volume brings together recent research and commentary in secondary school mathematics from a breadth of contemporary Canadian and International researchers and educators It is both representative of mathematics education generally as well as unique to the particular geography and culture of Canada The chapters address topics of broad applicability such as technology in learning mathematics recent interest in social justice contexts in the learning of mathematics as well as Indigenous education The voices of classroom practitioners the group ultimately responsible for implementing this new vision of mathematics teaching and learning are not forgotten Each section includes a chapter written by a classroom teacher making this volume unique in its approach We have much to learn from one another and this volume takes the stance that the development of a united vision supported by both research and professional dialog provides the first step *The Four Roles of the Numerate Learner* Mary Fiore, Maria Luisa Lebar, 2016-03-14 This timely book builds on our current understanding of how to effectively teach mathematics and borrows from the successful frameworks used to teach literacy It introduces a numeracy framework sense maker skill user thought communicator and critical interpreter that supports an integrated approach to math instruction It considers the mathematical practices students need to learn to construct number knowledge become mathematicians and simply do math The goal is to provide multiple entry points into the world of math instruction a new way of thinking and learning where learners engage in critical thinking about numeracy and act on their knowledge

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