

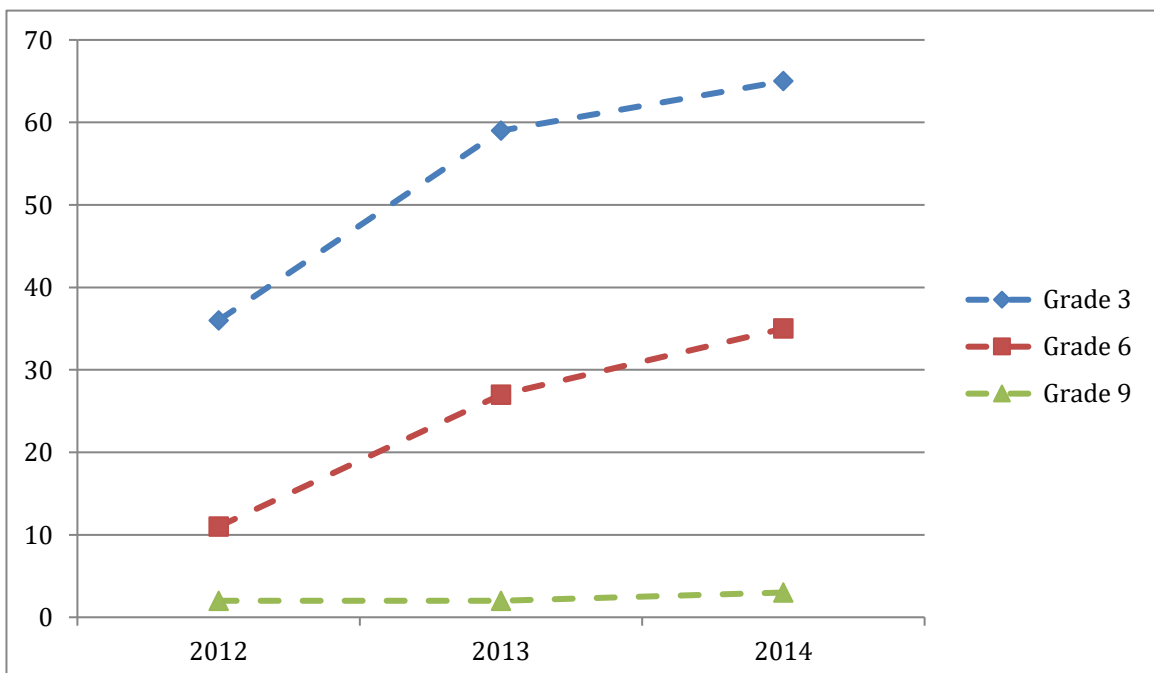
SHARP

Worksheet 5 Memorandum: Data Handling (2)

Grade 12 Mathematical Literacy

1.
 - a) The marks are decreasing from grade 1 to grade 9.
 - b) This is the students own opinion but the answer should be logical. For example: the maths marks are decreasing because the maths becomes harder in the older grades.
 - c) Grade 4 and grade 9.
 - d) Grade 1
 - e)
 - i) $70\% \pm 2\%$
 - ii) $38\% \pm 2\%$
 - iii) $10\% \pm 2\%$
 - f) This is the students own opinion but the answer should be logical. For example: yes, because in general the marks for each grade have improved every year.
 - g) This is the students own opinion but the answer should be logical. For example: Yes, the scale gives a good idea of the differences between the grades and it is easy to see the general trend of the data.

2.
 - a)

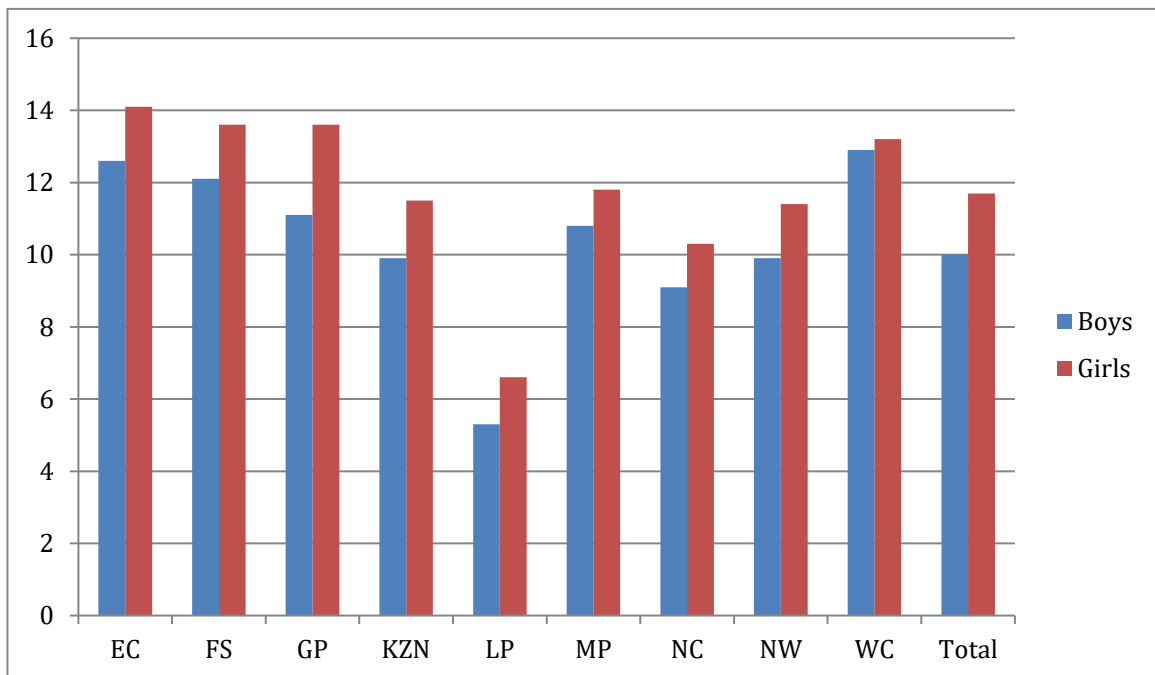


- b) The percentage of learners achieving 50% or more is increasing every year.
- c) This is the students own opinion but the answer should be logical. For example: Yes, the percentage of learners achieving 50% or more is increasing, but not as quickly as the grade 3 and 6 results.

Or no, the grade 9 results seem to be staying the same, with very little if any improvement.

- d) $1\ 042\ 133 \times 3\% = 31\ 264$ students achieved 50% or more.
- e)
 - i) This is the students own opinion but the answer should be logical. For example: Line graph, it gives a more accurate way of comparing the performance of the different grades
 - ii) This is the students own opinion but the answer should be logical. For example: Line graph, because the grades are above each other, you can see which grade did the best and by how much, more easily.
 - iii) This is the students own opinion but the answer should be logical. For example: Bar graph, you see the difference between the years more easily on the bar graph.

3. a)



- b)
 - i) Western Cape
 - ii) Eastern Cape
 - iii) Limpopo
 - iv) Limpopo

- f) 16 – 24 year-olds. This is because young people tend to get addicted to drugs more easily and are less inhibited (or any other logical argument).
- g) This is the students own opinion but the answer should be logical.

- 5.
- a) Isizulu
 - b)
 - i) 5 million
 - ii) 8 million
 - iii) 2 million
 - c) 11 500 000 (Isizulu) + 8 000 000 (IsiXhosa) + 7 000 000 (Afrikaans) + 5 000 000 (English) + 4 700 000 (Sepedi) = 36.2 million or 36 200 000.
 - d) Setswana or Sesotho.

- 6.
- a) Housing, water, electricity, gas and other fuels.
 - b)
 - i) $R25\ 000 \times 12.8\% = R3\ 200$
 - ii) $R25\ 000 \times 2.7\% = R675$
 - iii) $R25\ 000 \times 17.1\% = R4\ 275$
 - c) 32% of total = R1 300.
$$\therefore Total = \frac{1300}{32\%}$$

$$\therefore Total = R4\ 062,50$$
 - d) This is the students own opinion but the answer should be logical. For example: No, people who are below the bread line will not buy clothes every month because they are a luxury.
 - e) This is the students own opinion but the answer should be logical. For example: a survey or the census.
 - f) This is the students own opinion but the answer should be logical.