



Name: _____

Class: _____ Date: _____

Fun With Numbers

An extension of "South Africa's new hope"

"**South Africa's new hope**" (page 6, *What's Up* March 2018) tells of how a country is emerging from the oppression of apartheid. "A picture paints a thousand words," they say but so do numbers.

Work in Pairs

1. Study each of the following sequences and answer the questions given below.

First Sequence of Years: **1652**, 1665, 1678, 1691, ...

Second Sequence of Years: **1948**, 1949, 1952, 1957, ...

- i) Write down the next two numbers in each sequence.
 - ii) Find the 101st number (year) in each sequence.
 - iii) The Dutch colonised South Africa (SA) in **1652** and the British took over SA in **1795**. If the n^{th} number in the first sequence is 1795, find 'n'.
 - iv) Racial segregation and discrimination existed in SA from **1948** to 1994. Though apartheid was abolished, the elected ANC government acted violently during the **2012** Marikana Massacre. If the n^{th} number in the second sequence is 2012, find 'n'.
2. This year, 27% of South Africa's workers are unemployed. Given that 'n' is the total number of workers there, write an expression for the total number of employed workers (in terms of n).
 3. In 1960, during apartheid, the police shot a crowd of peaceful protestors at Sharpsville. 289 people were killed, including 29 children. If the number of men killed was thrice the number of women killed, find the number of men killed then.

Once again during the 2012 Marikana Massacre, the police killed 34 miners and wounded 78 others. Calculate the percentage reduction in the number of lives lost in this incident compared to the Sharpsville Massacre.

(Round off your answer to two decimal places)