**SCHOOL NAME:**



**TERM 1**

# ASSIGNMENT

**GRADE 7**

MATHEMATICS

MEMORANDUM

# 2014

# SCHOOL BASED ASSESSMENT TASK

# MARKS: 50

# WEIGHTED MARK: 10

# SUGGESTED TIME: 1 hour

# TERM 1: Investigation

**INVESTIGATION**

**2015**

**MARKS: 50 EXAMINER :**

**TIME: 1 hour MODERATOR :**

**This question paper consists of 7 pages**

**NAME :**

**GRADE 7 :**

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| **MATHEMATICS** |

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| **INSTRUCTIONS AND INFORMATION**  1. Answer ALL questions this question paper.  2. A non-programmable calculator may be used unless otherwise stated.  3. Show all necessary steps in your working unless otherwise stated.  4. When answering questions, candidates must apply their knowledge, skills and insight.  5. Number the answers correctly according to the numbering system used in this question paper.  6. Write neatly and legibly. |

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| **Question 1** | | |
| 1. | State whether the following statements are **True or False**. |  |
| 1.1 | 35,169 is larger than 35,72  **False** | (1) |
| 1.2 | 479,388 rounded off to the nearest whole number is 480  **False** | (1) |
| 1.3 | The sum of 2 cubed and 3 squared is 14  **False** | (1) |
| 1.4 | 1 is a prime number  **False** | (1) |
| 1.5 | The LCM of 5 and 10 is 20.  **False** | (1) |
| 1.6 | The square root of 16 is 8.  **False** | (1) |
| 1.7 | 9 is a multiple of 9  **True** | (1) |
| 1.8 | is equal to  **True** | (1) |
| 1.9 | **False** | (1) |
| 1.10 | **False** | (1) |
|  |  | **[10]** |

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| **Question 2** | | |
|  | Round **1 637,984** off to: |  |
| 2.1 | the nearest whole number  **1638** | (1) |
| 2.2 | two decimal places  **1637,98** | (1) |
| 2.3 | the nearest 100  **1600** | (1) |
| 2.4 | the nearest tenth  **1638,0** |  |
|  | | **[4]** |

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| **Question 3** | | |
| Complete the following: | | |
| 3.1 | 1 week = ………**168**………………………….. hours  2 hours 30 minutes = ………**150**……………. Minutes  200 seconds = ……or …**3,33**………… minutes | (3) |
|  |  | **[3]** |

|  |  |  |  |
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| **Question 4** | | | |
| 4.1 | Write 64 in index form in TWO different ways (using three different bases).  **82 ; 43;** | | (2) |
| 4.2 | List the first 5 Natural numbers.  1 ; 2; 3; 4; 5 | | (1) |
| 4.3 | What is the smallest number to be added to 322 to make it divisible by 3?  **1** | | (1) |
|  |  | | **[4]** |
| **Question 5** | | | |
| 5.1 | List the factors of 24.  1 ; 2; 3; 4; 6; 8; 12; 24 | | (1) |
| 5.2 | Find the HCF of 24 and 30.  **HCF = 6** | | (1) |
| 5.3 | List the first 5 multiples of 12.  1; 2; 3;4; 6 | | (1) |
| 5.4 | Find the LCM of 12 and 18.  **LCM = 36** | | (1) |
| 5.5 | How much time has elapsed between the first time and the second time?    4,30  4,30  1,47  2,50 | | (4) |
|  |  | | **[8]** |
| **Question 6** | | | |
| Simplify the following, showing all steps of working:: | | | |
| 6.1 | 3  10 | | (2) |
| 6.2 | 0 | | (2) |
| 6.3 | 3 | | (3) |
| 6.4 | 5 | | (1) |
| 6.5 | 0 | | (3) |
| 6.6 | |  |  |  |  | | --- | --- | --- | --- | |  | **Price of article** | **Amount offered** | **Amount of change** | | **e.g** | **R5,37** | **R8** | **R2,63** | | **a)** | **R11,80** | **R20** | **R8,20** | | **b)** | **8c** | **50c** | **48c** | | **c)** | **R12,75** | **R15** | **R2,25** | | **d)** | **5c** | **20c** | **15c** | | | (4) |
| 6.6 | A particular service has a cost of R700 excluding VAT at 14%. Calculate  the total cost after VAT is added. | | |
|  | 6.6.1 | Find the total cost by writing and solving an equation:  **total cost with VAT = cost without VAT + 14% of cost without VAT**  **=** | (3) |
| 6.7 | Ratio in mathematics is the relationship between two numbers of the same kind.  Sipho has a lot of candies. He is told to give Mpho two times the number of candies  John receives. Complete the table below: | | |
|  | 6.7.1 | |  |  | | --- | --- | | **John** | **Mpho** | | 1 | 2 | | 1. 6 | 12 | | 1. 5 | 10 | | 18 | 1. 9 |   (3) | |
|  |  | | **[21]** |
|  | **TOTAL : 50 MARKS** | |  |