

# TERM 1 ASSIGNMENT

**MEMORANDUM**

**D9 JE**

**GRADE 8**

MATHEMATICS

# 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 6 pages**

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| **MATHEMATICS** |

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| **INSTRUCTIONS AND INFORMATION**  1. This question paper consists of **SECTION** A and **SECTION B** based on the prescribed content framework in the CAPS document.  **SECTION A: MATCH COLUMN A AND COLUMN B**  QUESTION 1: TEN QUESTIONS BASED ON ALL  SEVEN TOPICS COVERED  **ANSWER ALL SECTIONS IN THE SPACE PROVIDED**.  **SECTION B: THREE QUESTIONS BASED ON SEVEN TOPICS**  QUESTION 2: RATIO & RATE, PERCENTAGE AND FINANCIAL MATHEMATICS  QUESTION 3: INTEGERS AND COMMON FRACTIONS  QUESTION 4: EXPONENTS AND SCIENTIFIC NOTATION  2. Answer ALL questions in both SECTIONS.  3. A non-programmable calculator may be used unless otherwise stated.  4. In SECTION B show all necessary steps in your working unless otherwise stated.  5. When answering questions, apply your knowledge, skills and insight.  6. Number the answers correctly according to the numbering system used in this question paper.  7. Write neatly and legibly. |

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| **SECTION A** | | |  |
| **Question 1** | | |  |
| 1. | Match Column A to Column B. Write corresponding letter next to the number. | |  |
|  |  | |  |
|  | **1.** | **F** 🗸 | (1) |
|  | **2.** | **E** 🗸 | (1) |
|  | **3.** | **I** 🗸 | (1) |
|  | **4.** | **H** 🗸 | (1) |
|  | **5.** | **J** 🗸 | (1) |
|  | **6.** | **G** 🗸 | (1) |
|  | **7.** | **C** 🗸 | (1) |
|  | **8.** | **D** 🗸 | (1) |
|  | **9.** | **A** 🗸 | (1) |
|  | **10.** | **B** 🗸 | (1) |
|  | | | **[10]** |

**SECTION B**

|  |  |  |
| --- | --- | --- |
| **Question 2** | | |
| 2.1 | Divide in the ratio 4 : 5 : 7  4 + 5 + 7 = 16 🗸 | | (4) |
| 2.2 | A pair of jeans marked at R450-00 is sold at a discount of 25%.  Determine the selling price.  Discount =  Selling price = | | (3) |
| 2.3 | With the use of the following formula, determine future value of Steven’s money.  Round ALL the answer off to two decimal places.    Steven won a portion of the local lottery. The price money is to the value of R18 000.  He wants to invest the money but does not know which bank to choose.  FNB offers Steven 5,6% for 8 years simple interest per annum, Nedbank offers Steven 6,6% for 6 years simple interest per annum and Standard Bank offers 7,2% for 5 years simple interest.  Determine each bank future value to help Steven decide which bank he should choose.  **FNB**        **Nedbank**      **Standard Bank**  Responses open ended. Allow learners reasonable conclusion on which bank Steven should choose. | | (9) |
|  | | | **[16]** |
| **Question 3** | | | |
| 3.1 | Simplify the following | | |
|  | 3.1.1 | -2 + 3(-3) | (3) |
|  | 3.1.2 | 7 + 6 + 18  28 | (2) |
| 3.2 | Simplify the following and leave your answer in smallest form | | |
|  | 3.2.1 | 1 | (3) |
|  | 3.2.2 |  | (3) |
|  | 3.2.3 |  | (3) |
|  | | | **[14]** |
| **Question 4** | | | |
| 4.1 | **Simplify.** | |  |
|  | 4.1.1 |  | (3) |
|  | 4.1.2 |  | (2) |
|  | 4.1.3 | or | (3) |
| 4.2 |  | Write 3 560 000 in scientific notation. | (2) |
|  | | | **[10]** |
| **TOTAL: 50** | | | |