

MATHEMATICS

# 2014

# SCHOOL BASED ASSESSMENT TASK

# MARKS: 50

# WEIGHTED MARK: 10

# SUGGESTED TIME: 1 hour

# TERM 1: Investigation

**INVESTIGATION**

**GRADE 7**

**TERM 1**

# ASSIGNMENT

**MARKS: 50 EXAMINER :**

**TIME: 1 hour MODERATOR :**

**This question paper consists of 7 pages**

**NAME :**

**GRADE 7 :**

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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. |

**Question 1:Whole numbers**

Calculate without using a calculator

* 1. 24 502 + 35 798 (2)
  2. 320 000 – 233 567 (2)
  3. 378 45 (3)
  4. 6 251 7 (3)

[10]

Question 2

2.1. Fill in between the following numbers:

2.1.1. 198 765 110 198 675 011 (1)

2.1.2. 694 000 201 794 001 345 (1)

2.1.3. 240 345 240 345 (1)

2.2. Arrange the following numbers in descending order( from the biggest to the smallest)

463 499; 102 278 001; 99  999 999; 899 888 898; 9 876 653 (2)

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2.3. Round these numbers to the:

2.3.1. 54 ( nearest 10) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1)

2.3.2. 452 (nearest 100): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1)

2.3.3. 58 453 (nearest 1000): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1)

2.4. Complete

2.4.1. If 52 + 37 = 89, then 37 + 52 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1)

2.4.2. If 88 + 49 = 137 , then 137 49 = and 137 88 = \_\_\_\_\_\_\_\_\_\_\_\_ (1)

2.4.3. If 15 + (7 + 8) = 30, then (15 + 7) + 8 = \_\_\_\_\_\_\_\_\_\_\_\_ (1)

2.4.4. If 3 (4 2) = 24, then (3 4) 2 = \_\_\_\_\_\_\_\_\_\_\_\_ (1)

2.5. Mr Mohapi sells your school 500 chairs for R22 500. Mrs Shuma sells your school 200 chairs for R9 600. Show by calculations who sell cheaper chairs? (3)

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[15]

**Question 3: Factors and Multiples**

3.1. List down:

3.1.1. All factors of 24 (2)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3.1.2. Which of the factors above are prime factors? (2)

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3.2. Find the highest common factor(HCF) of 18 and 24 (3)

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3.3. Find the lowest common multiple(LCM) of 6 and 9 (3)

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[10]

**Question 4: Ratio, Rate and Finance**

4.1. Write the following ratio in its simplest form (1)

24 : 32

4.2. In a class of 35 learners, the ratio of boys to girls is 3: 4. Calculate how many girls are there in the class. (2)

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4.3. A car travels a distance of 480 km in 4 hours. Calculate the speed of the car. (3)

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4.4. A dress cost R800. I get 20% discount. How much do I pay? (2)

[8]

**Question 5: Exponents**

5.1.Write the following in exponential form (1)

3 x 3 x 3 x 3 x 3 x 3 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5.2. Write the following in expanded form (1)

= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5.3. Calculate

5.3.1. (2)

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5.3.2. 4 (3)

[7]