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GAUTENG PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

GAUTENG NORTH DISTRICT OFFICE

LEARNER'S NAME & SURNAME	:	
SUBJECT	:	MATHEMATICS
GRADE	:	9
TASK	:	Term 1 Assignment
MARKS	:	50
DURATION	:	1 Hour

Question Topic	1	2	3	4	5	Total
	Properties of Numbers	Calculation s and Calculation Techniques	Multiples and Factors	Integers	Solving Problems	
Total Mark	07	13	5	12	13	50
Learner Mark						

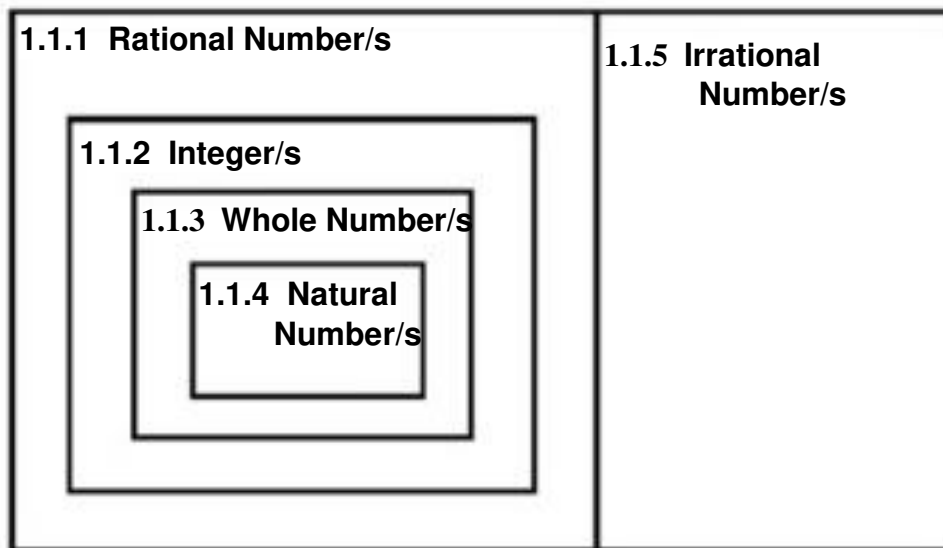
Instructions to the learner

1. Read all the instructions carefully.
2. Answer all the questions in the spaces provided.
3. All working must be shown.
4. The assignment is out of 50 marks.
5. The duration is 1 hour.
6. Approved scientific calculators may be used unless stated otherwise.

Question 1 [Properties of Numbers]

- 1.1 The diagram below is an exact representation of the real number system. Classify the numbers below in accordance with the area in which they belong. Some numbers may be repeated.

$$-\frac{7}{3} ; 2\pi ; \sqrt[3]{9} ; 2, \dot{3} ; 0 ; \sqrt{4} ; 10$$

The Real Number System

Write your answers on the spaces provided below.

- 1.1.1 _____ (1)
- 1.1.2 _____ (1)
- 1.1.3 _____ (1)
- 1.1.4 _____ (1)
- 1.1.5 _____ (1)

- 1.2 Insert the two whole numbers on both sides of $\sqrt{24}$: (2)

$$\boxed{} < \sqrt{24} < \boxed{}$$

[07]

Question 2 [Calculations and Calculation Techniques]

- 2.1 Use estimation to calculate the following by rounding off the numbers to the nearest 100. (4)

2.1.1 $723 + 586$	2.1.2 $2850 - 1155$

- 2.2 Determine the exact answer for each of the calculations in question 2.1 above, by working out the errors caused by rounding, and compensating for them. (4)

2.2.1 $723 + 586$	2.2.2 $2850 - 1155$

- 2.3 Multiply the following by using the column Method: (2)

$$1988 \times 34$$



2.4 Use a calculator to check your answer to question **2.3**. (1)

2.5 A municipality has budgeted R80 000 for putting up new street name boards. (2)
The street name boards cost R134 each. How many new street name boards
can be put up, and how much money will be left in the budget?

[13]

Question 3 [Multiples and Factors]

3.1 Three numbers are given below. Use prime factorisation to determine the HCF (5)
and LCM.

1848	132	462

[05]

Question 4 [Integers]

- 4.1 Determine the number that makes the following statement true. (1)

$$53 - (\text{a certain number}) = 65$$

The certain number = _____

- 4.2 Calculate the following without the use of a calculator:

4.2.1
$$\frac{50 \times 33 + 25 \times 50}{10 \times 50 - 50 \times 19}$$
 (3)

4.2.2
$$-3 - (-2)(5) - (-4)^3$$
 (3)

4.2.3
$$\frac{3^3 - (-\sqrt{4})^2 + \sqrt[3]{-64}}{-4^2 \times 1^3 + 17}$$
 (5)

[12]

Question 5 [Solving Problems]

- 5.1 Write 24 : 18 in simplest form. (1)

5.2 Complete the table and determine if the proportion is direct or indirect. Give a reason for your answer. (4)

Numbers of pens	2	6	10		20
Price in Rands	7	21		42	

- 5.3 A farmer ploughs his lands in 12 days if he uses 5 tractors. How long will it take if he uses only 3 tractors? (3)

- 5.4 Karabo and John are at the same rest stop alongside a highway. Karabo started driving along the highway at a constant speed of 80 km/h. An hour later, John started driving along the same highway in the same direction as Karabo at the constant speed of 100 km/h. How long will it take John to catch up with Karabo? (5)

[13]**The End?**