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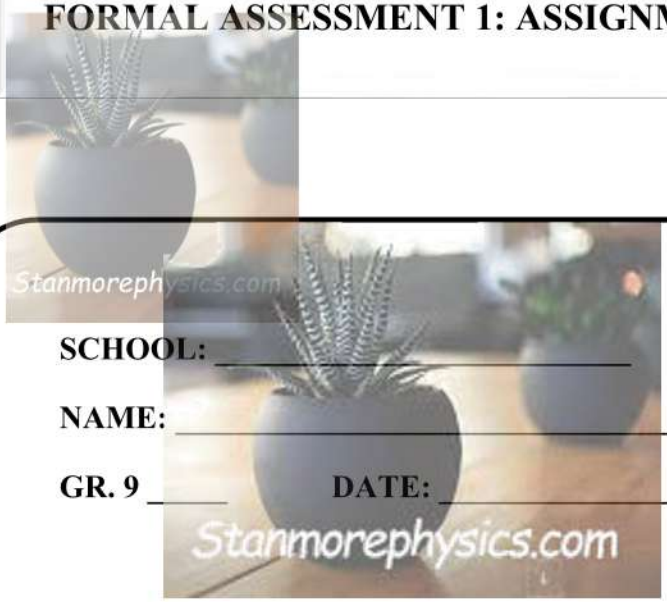
Province of the
EASTERN CAPE
EDUCATION – SENIOR PHASE &FET
NELSON MANDELA DISTRICT

GRADE 9

MATHEMATICS

TERM 1

FORMAL ASSESSMENT 1: ASSIGNMENT



SCHOOL: _____

NAME: _____

GR. 9 _____ **DATE:** _____

50

INSTRUCTIONS

Read the following instructions carefully before answering the questions.

1. This assignment consists of 4 questions.
2. Answer all questions on the question paper.
3. Show all calculations and steps clearly.
4. An answer without calculations would not necessarily be awarded full marks.
5. A non-programmable calculator may be used, unless stated otherwise.
6. Where needed, round answers off to two decimal places, unless stated otherwise.
7. Write neatly and legibly with black or blue pen.

_____

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QUESTION 1

1.1 A list of numbers is given.

-14 ; 36 ; 3 ; 2.13131…. ; 5 ; 3,14234842…… ; 25 ; 2

Choose from the given list (write your answer next to the space provided):

1.1.1 Irrational number _____ (1)

1.1.2 An even prime number _____ (1)

1.1.3 Recurring decimal _____ (1)

1.1.4 An uneven square number _____ (1)

1.1.5 A factor of 51 _____ (1)

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1.2 Determine the Highest Common Factor (HCF) and Lowest Common Multiple (LCM) of 70 and 300.

1.2.1 HCF

(2)

1.2.2 LCM

(2)

1.3 Determine the sum of the prime numbers of 120.

(3)

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QUESTION 2

2.1 Divide 240g in the ratio 5:3:4

(6)

2.2 Neo mixes 600ml of black paint with white paint in order to get grey paint. He thinks the colour came out too dark, so he decreases the amount of black paint in the ratio 7:12. Calculate how much black paint it would be.

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(3)

2.3 The distance from Jeffreys Bay to Knysna is 198km. A driver departs 09:00 from Jeffreys Bay and arrives 11:00 at Knysna.

2.3.1 Calculate the driver's average speed.

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(3)

2.3.2 The driver fueled his car before departing from Jeffreys Bay. His tank's capacity is 28litres.
Calculate how much he will pay for fuel if he fills up the tank to half of its capacity, and the price of fuel was R17,98 per litre.

(3)

[15]

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QUESTION 3

3.1 The government decides to erect four classrooms at a school. Each worker will be paid R80 per hour.
Complete the table that shows how much the workers will be paid. (4)

Number of hours	2	3		7	
Wage in Rand	R160		R400		R640

3.2 It takes 6 painters 4 ½ hours to paint these classrooms

3.2.1 Calculate how long 3 painters will take to complete the same job.

(2)

3.2.2 Is this direct or indirect proportion?

(1)

3.2.3 Give a reason for your answer.

(2)
[9]

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QUESTION 4

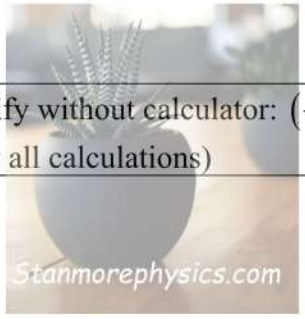
4.1 Determine between which two whole numbers lies $\sqrt{20}$

(2)

4.2 Subtract 24 from –6

(2)

4.3 Simplify without calculator: $(-5)(7)+4\times5$
(Show all calculations)



(2)

4.4 Simplify without calculator: $9^2-\sqrt{36}\times\sqrt[3]{1000}$
(Show all calculations)

(2)

4.5 Jason stands on a scale with two 2,5kg hand weights, one in each hand. The scale shows 98kg. Calculate Jason's weight.

(3)

4.6 Xolani receives a monthly salary of R9 000. He uses half of his money to pay for his home loan and municipal costs, R1200 for food and R300 for transport to his work.
Calculate how much he has left over of his salary.

(3)

[14]

TOTAL: 50