LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF EDUCATION

SEKHUKHUNE SOUTH DISTRICT

GRADE 08

MATHEMATICS

TERM 1 - ASSIGNMENT

Surname and Name:
Grade: 8

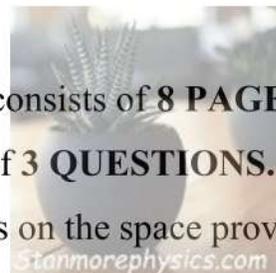**TOPIC** : WHOLE NUMBERS, INTEGERS AND COMMON FRACTIONS

MARKS : 50

TIME : 2 HOURS

INSTRUCTIONS AND INFORMATION

Read the following instructions carefully before answering this question paper:

1. This question paper consists of **8 PAGES** including the cover page.

2. This paper consists of **3 QUESTIONS.**

3. Answer All questions on the space provided.

4. Clearly show All calculations, diagrams, graphs, etc. which you have used in determining the answers.

5. An appropriate scientific calculator (non programmable and non-graphical) may be used unless stated otherwise.

6. If necessary, answers should be rounded off to ONE decimal place, unless stated otherwise.

7. Number your answers correctly according to the numbering system used in the question paper.

8. It is for your own interest to write legibly and to present your work neatly.

QUESTION 1

1.1.   Calculate the following using the column method.

    1.1.1. $7\,826 + 888 + 367$ (2)

    _____

    1.1.2. $3\,045 - 2\,572$ (2)

    _____

    1.1.3. $1\,756 \times 75$ (2)

    _____

1.2.   Calculate the following using Long Division method.   (3)

    $7\,234 \div 48$

_____

_____

_____

_____

_____

_____

_____

1.3.   Write down:

    1.3.1.   the factors of 18.   (1)

    _____

    1.3.2.   the prime factors of 18.   (1)

    _____

    1.3.3.   the multiples of 18 smaller than 90.   (1)

    _____

1.3.4.   the composite numbers smaller than 18.   (1)

_____

1.3.5.   the prime numbers smaller than 18.   (1)

_____

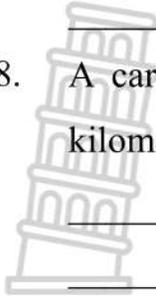1.4.   Determine the lowest common multiple (LCM) of 75 and 100.   (2)

_____

_____

_____

_____

1.5.   Find the highest common factor (HCF) of 36 and 40.   (2)

_____

_____

_____

_____

_____

_____

1.6.   Increase 56 in the ratio $2 : 3$.   (2)

_____

_____

_____

1.7.   Decrease 72 in the ratio $4 : 3$.   (2)

_____

_____

_____

1.8.   A car travels 180 km in 2 $hours$ on a straight road. How many   (3)
        kilometers can it travel in 3 $hours$ at the same speed?

_____

_____

_____

1.9.   Nathi, Paul and Tim worked in Mr Setati's garden. Nathi worked for   (4)
        5 $hours$, Paul for 4 $hours$ and Tim for 3 $hours$. Mr Setati gave the
        boys a total of $R600$ for their work. How should they divide the
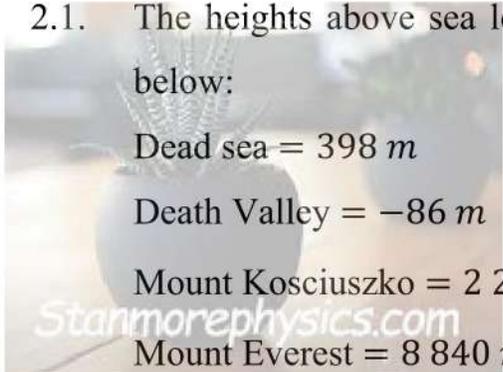 $R600$ among the three of them?

_____

_____

_____

_____
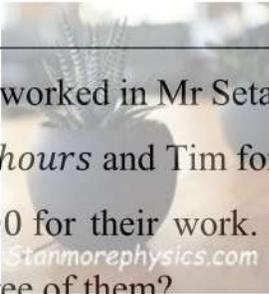
1.10.   Ann buys a scientific calculator for $R400$ excluding VAT. How   (1)
        much VAT will she pay?

_____

                                                                          [30]

QUESTION 2

2.1.   The heights above sea level of some well-known place are given
        below:

        Dead sea $= 398\ m$

        Death Valley $= -86\ m$

        Mount Kosciuszko $= 2\,230\ m$

        Mount Everest $= 8\,840\ m$

2.1.1. Which place is the lowest? (1)

_____

2.1.2. How much higher is Mount Kosciuszko than Death Valley? (1)

_____

2.1.3. What is the difference in altitude between Mount Everest and (1)
the dead sea?

_____

2.2. Calculate the following.

2.2.1. $[-5 + (-3)] \times 7$ (2)

_____

2.2.2. $-3 \times 4 + (-7) \times 9$ (2)

_____

2.2.3. $-5 \times (-3 + 7) + 20 \div (-4)$ (2)

_____

2.2.4. $-5 - (-2) - (+7)$ (2)

_____

_____

[11]

QUESTION 3

3.1 Convert the following mixed fraction to improper fraction

$2\dfrac{19}{25}$ (1)

_____

3.2 Convert the given improper fraction to mixed fraction

$\dfrac{61}{6}$ (2)

_____

_____

3.3 Write the following fraction into its simplest form

$\dfrac{36}{42}$ (1)

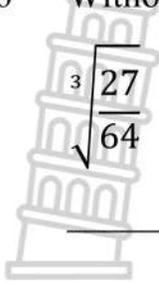_____

_____

3.4 Determine (show all your workings)

$65\% \ of \ \dfrac{5}{6}$ (1)

_____

_____

3.5 Determine (show all your workings)

$2\dfrac{9}{15} + \dfrac{4}{5} - 2\dfrac{3}{5}$ (2)

_____

_____

_____

_____

3.6   Without using a calculator determine the value of

(2)

$$\sqrt[3]{\frac{27}{64}}$$

_____

_____

[9]

TOTAL MARKS: 50