



LIMPOPO

PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

SEKHUKHUNE SOUTH DISTRICT

GRADE 7

MATHEMATICS
CONTROLLED TEST 2

DATE : 07 June 2022

MARKS : 50

DURATION: $1\frac{1}{2}$ Hours

50

Learner: _____

School: _____

Instructions:

1. Read the questions carefully before answering.
2. Answer all questions in the spaces provided.
3. Write in blue or black ink only.
4. This paper consists of 6 (Six) pages including the cover page.

Question 1

1.1 Insert brackets in the following equation to make it true

$$60 \div 3 + 5 \times 4 = 40 \quad (1)$$

1.2 Which of the following is/are NOT prime numbers? Circle them.

2; 7; 3; 11; 9; 19 (1)

1.3 Calculate the following. Show your working steps

1.3.1

$$476\,006 - 197\,539$$

(2)

1.3.2

$$9427 \times 28$$

(2)

1.3.3

$$6783 \div 23$$

(3)

[9]

Question 2

Calculate the following

2.1 $2^5 \div 2^3 =$ _____ (2)

2.2 $(\sqrt[3]{27})^3 =$ _____
= _____ (2)

2.3 $3^2 + \sqrt{25} =$ _____
= _____ (2)

[6]

Question 3

3.1 Fill in $>$, $<$ or $=$, to make the statements true

$\frac{2}{10}$ $\frac{200}{1000}$ (1)

3.2 Calculate

$3\frac{1}{3} - 2\frac{3}{4}$

(3)

3.3 The ratio of boys to girls at the party is 3:2. If there are 60 children at the party, how many girls are there?

(2)

- 3.4 The price of a school bag has increased from R200 to R250. Calculate the percentage increase in the price.

(3)

- 3.5 Convert the following common fraction into decimal fraction.

$$\frac{1}{20} = \underline{\hspace{2cm}}$$

(1)

- 3.6 Calculate the following

$12,73 \times 3,13 =$

(3)

[13]

Question 4

- 4.1 Arrange the given the numbers in ascending order

-8; 5; 0; -3; 2; 1

_____ ; _____ ; _____ ; _____ ; _____ ; _____

(1)

- 4.2 Calculate:

4.2.1 $(+9) - (-5) =$

(2)

4.2.2 5.4.1 $(-15) \times (-2) =$

(2)

4.2.3 $24 \div (-6) =$

(2)

[8]

Question 5

5.1 Use the given sequence to answer the questions that follow

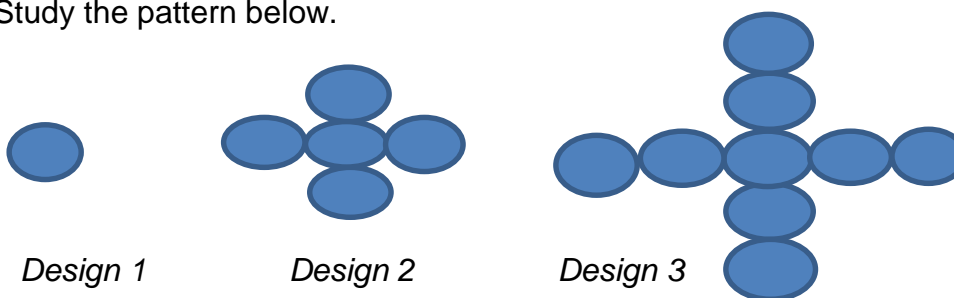
1 ; 2 ; 3 ; 5 ; 8 ; 13 ;

5.1.1 Give the next two terms in the number pattern. (2)

_____ ; _____

5.1.2 Describe how the sequence is extended. (2)

5.2 Study the pattern below.



5.2.1 Write the general rule of the above pattern in words. (1)

5.2.2 Determine the number of circles in the 20th design by completing the statement below;

Design 1: $4(1) - 3 = 1$

Design 2: $4(2) - 3 = 5$

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Design 20: _____ = _____ (2)

5.2.3 Complete the table below.

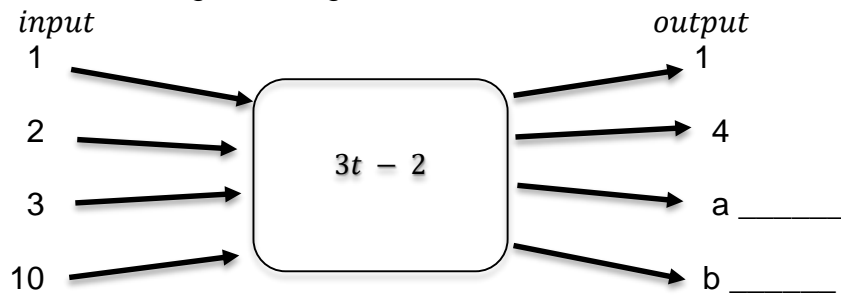
Design number	1	2	3	4	b _____
Number of circles	1	5	9	a _____	41

(2)

[8]

Question 6

6.1 Complete the following flow diagram



(2)

6.2 6.2.1 Use the table below to determine the rule that describes the relationship between x and y .

x	10	11	12	13
y	16	17	18	19

(2)

$y =$ _____

6.2.2 Use the answer in 6.2.1 to answer the following;

When $x = 20$, calculate the value of y .

(2)

[6]

TOTAL = 50