



GAUTENG PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

PROVINCIAL EXAMINATION

JUNE 2022

GRADE 6

MATHEMATICS

TIME: 1 hour

MARKS: 40

DISTRICT: _____

SCHOOL NAME: _____

NAME & SURNAME: _____

CLASS (e.g. 6A): _____

9 pages

P.T.O.

INSTRUCTIONS

1. Read ALL the instructions carefully.
2. Question 1 consists of 15 multiple-choice questions. Circle the letter of the correct answer.
3. Answer QUESTIONS 2 to 7 in the spaces or frames provided.
4. ALL calculations must be shown on the QUESTION PAPER and may not be done on separate rough paper.
5. Write neatly and legibly.
6. The use of a calculator is NOT allowed.

Question	Topic	Mark	Learner's mark
1	Multiple-choice	15	
2	Operations with whole numbers	12	
3	Fractions and decimals	4	
4	Patterns and Algebra	3	
5	Problem Solving – Decimals	2	
6	Problem Solving – Fractions	2	
7	Problem Solving – Whole numbers	2	
Total		40	

1. Circle the letter of the correct answer.

1.1 Which of the following numbers is bigger than 657 399 199?

- A 667 399 199
- B 657 200 199
- C 657 389 200
- D 576 399 991

(1)

1.2 What is the value of the underlined digit in 803 461 005?

- A Three
- B Three million
- C Thirty million
- D Thirty thousand

(1)

1.3 Round off the following number to the nearest 1 000:

738 551

- A 739 551
- B 738 600
- C 738 000
- D 739 000

(1)

1.4 Which number is a factor of both 15 and 40?

- A 3
- B 8
- C 5
- D 15

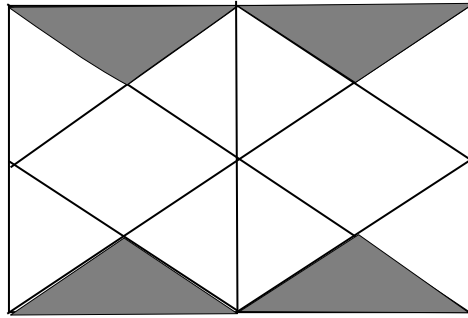
(1)

1.5 How many prime numbers are there between 90 and 100?

- A 1
- B 2
- C 3
- D 0

(1)

1.6 What fraction of the whole shape in the figure below is shaded?



- A $\frac{1}{4}$
- B $\frac{1}{8}$
- C $\frac{4}{12}$
- D $\frac{4}{8}$

(1)

1.7 The fraction $\frac{24}{36}$ can be written in its simplest form as:

- A $\frac{1}{3}$
- B $\frac{2}{3}$
- C $\frac{3}{4}$
- D $\frac{4}{9}$

(1)

1.8 The mixed number $4\frac{2}{5}$ expressed as a decimal is:

- A 0,4
- B 4,2
- C 4,4
- D 4 400

(1)

1.9 The value of $238,2 \div 100$ is:

- A 0,2382
- B 238,2
- C 23,82
- D 2,382

(1)

1.10 The smallest number that can be divided by 6, 9 and 12 and leaves a remainder of 1 is:

- A 28
- B 36
- C 73
- D 145

(1)

1.11 What is the missing number in the number sentence?

$$2 \times \triangle + 10 = 48 \div 2$$

- A 19
- B 12
- C 14
- D 7

(1)

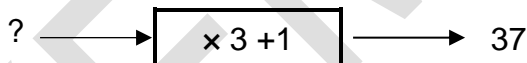
1.12 What will the next term in this sequence be?

25 ; 21 ; 16 ; 10 ; _____

- A 3
- B 4
- C 5
- D 6

(1)

1.13 What is the missing input number in this flow diagram?



- A 15
- B 12
- C 10
- D 40

(1)

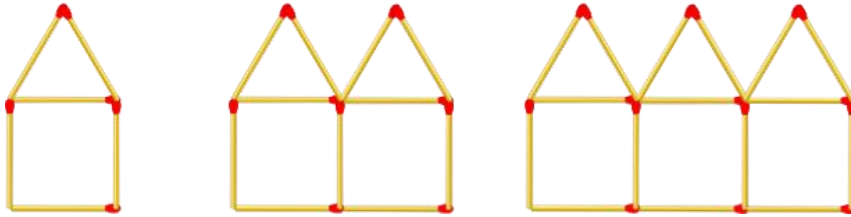
1.14 What is the missing term in the table below?

Term number	1	2	3	4	5	10
Term	2	5	10	17	26	?

- A 37
- B 100
- C 101
- D 63

(1)

1.15 What is the rule to calculate how many matches the next pattern will have?



- A 1 more than the previous pattern
- B 5 more than the previous pattern
- C 6 more than the previous pattern
- D 2 times as many as the previous pattern

(1)
[15]

2. Calculate the answers for QUESTIONS 2.1 – 2.5.

2.1 $267\,900 + 34\,987 =$

(2)

2.2 $987\,000 - 56\,987 =$

(2)

2.3 $4\,576 \times 569 =$

(3)

2.4 $6\,450 \div 276 =$

(3)

2.5 $10\,000 \div 20 - 25 \times 20 =$

(2)

[12]

3. Calculate the answers for QUESTIONS 3.1 and 3.2

3.1 $3\frac{1}{3} + 2\frac{2}{3}$

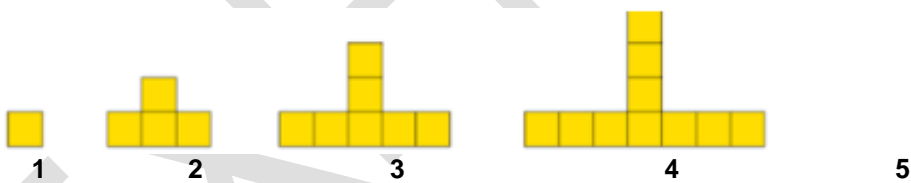
(2)

3.2 $5,08 - 4,12$

(2)

[4]

4. Answer the questions about the following diagram pattern.



4.1 Draw the next diagram pattern next to number 5 above.

(1)

4.2 Describe the pattern in words.

(1)

4.3 Give the number of the diagram pattern that will have 64 small squares.

(1)

[3]

5. At the shop, you buy the following items and pay with a R50 note. How much change will you get back?

Bread: R15,00
Milk: R22,50
Cold drink: R10,25

(2)

6. Linda spent $\frac{3}{4}$ of her savings on furniture. She then spent $\frac{1}{2}$ of her remaining savings on a fridge. If the fridge cost her R1 500, what were her original savings?

(2)

7. There are five soccer teams competing in a tournament. Every team must play one game against each of the other teams. How many games will there be in total?

(2)

TOTAL: 40

END