



education

Department:
Education
North West Provincial Government
REPUBLIC OF SOUTH AFRICA

PROVINCIAL ASSESSMENT

GRADE 6

MATHEMATICS
NOVEMBER 2024

MARKS: 60

TIME : 2 hours

NAME : _____

SCHOOL : _____

LEO : _____

DISTRICT : _____

This question paper consists of 13 pages.

Instructions to the learners:

1. Read ALL the questions carefully.
2. Answer ALL questions in the space provided.
3. Write neatly and legibly.
4. You may NOT use a calculator.
5. The teacher will lead you through the practice exercise question before you start the test.

Practice exercise:

Circle the letter of the correct answer:

The value of the underlined digit in 65 973 is:

- A 6 000
- B 65 000
- C 60 000
- D 65 900

You have answered correctly if you have circled C above.

The test starts on the next page.

QUESTION 1

Circle the letter of the correct answer.

1.1 If $384 \div 16 = 2 \times t$, then $t =$

A 32

B 48

C 16

D 12

(1)

1.2 What is the next number of triangles in the pattern?



A 10

B 5

C 15

D 7

(1)

1.3 A car travels 250 km in one day. Convert 250 km to cm.

A 250 000

B 25 000 000

C 2 500 000

D 2 500

(1)

1.4 Calculate: $\frac{3}{5}$ of 150

A 100

B 90

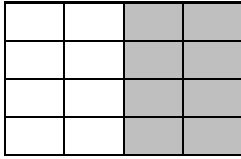
C 120

D 60

(1)

- 1.5 Which one of the following is a prime number?
- A 13
 - B 16
 - C 21
 - D 27 (1)
- 1.6 All the faces have the same area in a ...
- A Triangular prism.
 - B Rectangular prism.
 - C Hexagonal prism.
 - D Cube. (1)
- 1.7 An angle that is one quarter of a revolution is called a/an ...
- A Right angle.
 - B Acute angle.
 - C Straight line.
 - D Revolution. (1)
- 1.8 Round 245 499 off to the nearest 1 000.
- A 245 400
 - B 245 500
 - C 245 000
 - D 246 000 (1)

1.9 What fraction of the blocks is shaded in the diagram below?



- A 0,25
- B 0,5
- C 0,75
- D 0,8 (1)

1.10 A container has a capacity of 250 milliliters. If 150 milliliters of liquid is added, what percentages of the container is filled?

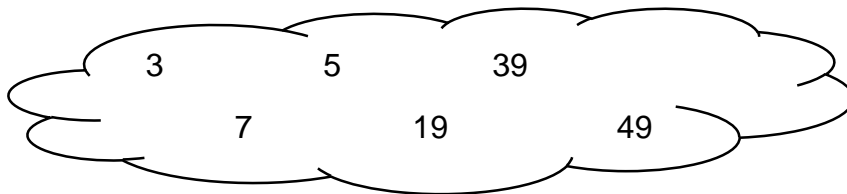
- A 40%
 - B 50%
 - C 60%
 - D 30% (1)
- [10]**

QUESTION 2

2.1 What is the value of the underlined digit in 789 256 365?

_____ (1)

2.2 Circle a factor of 9 in the numbers given below.



(1)

2.3 Write $\frac{1}{8}$ as a decimal.

_____ (1)

2.4 Insert the missing number in the following number sentence.

$(320 \times 0 + 20) \times \boxed{} = 20$ (1)

[4]

QUESTION 3

Calculate the answers for Questions 3.1 to 3.6. You may use any method.

Show ALL your calculations.

3.1 $585\,584 - 45\,759$

(2)

3.2 $7\,634 \times 345$

(3)

3.3 $6\,852 \div 112$

(3)

3.4 $5\frac{2}{8} + 4\frac{3}{16}$

(3)

3.5 $56,63 + 17,03$

(2)

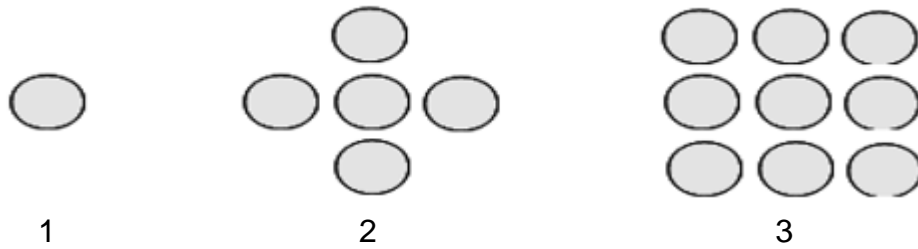
3.6 $15 + (30 \times 6 - 3)$

(2)

[15]

QUESTION 4

4.1 Study the pattern of circles below and answers the questions that follow.

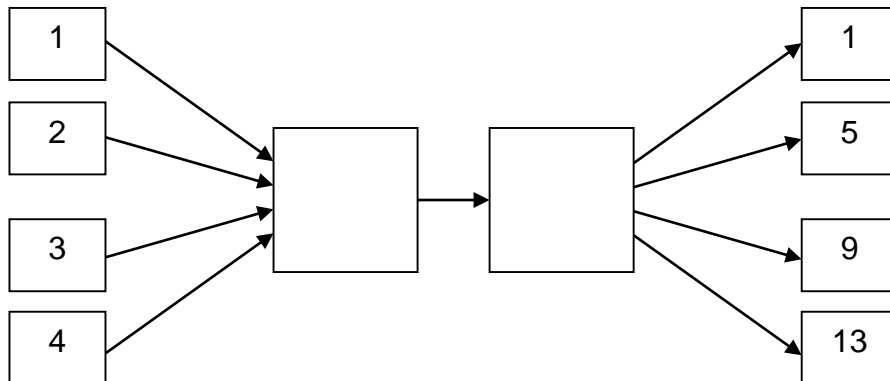


4.1.1 Use the pattern to complete the table below.

Stage number	1	2	3		5	
						(a)
Number of circles	1	5	9			37
					(b)	

(2)

4.1.2 Use the pattern to complete the flow diagram below.



(2)

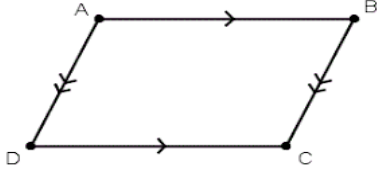
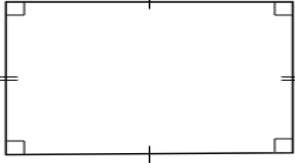
4.2 Write the next number in the pattern below.

6,5; 6,7; 6,9; _____

(1)
[5]

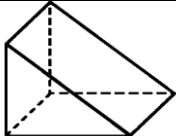
QUESTION 5

5.1 Use the table below to compare the properties of rectangle and parallelogram.

2D Shapes		
Properties of 2D shapes	Parallelogram	Rectangle
		
Angles		
Side		

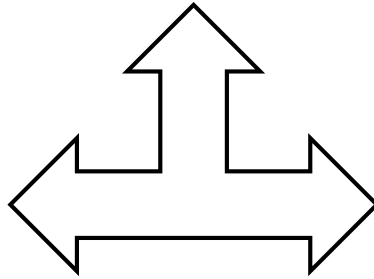
(4)

5.2 Complete the table below.

3D OBJECT	NAME OF 3D OBJECT	NUMBER OF FACES	NUMBER OF EDGES
			

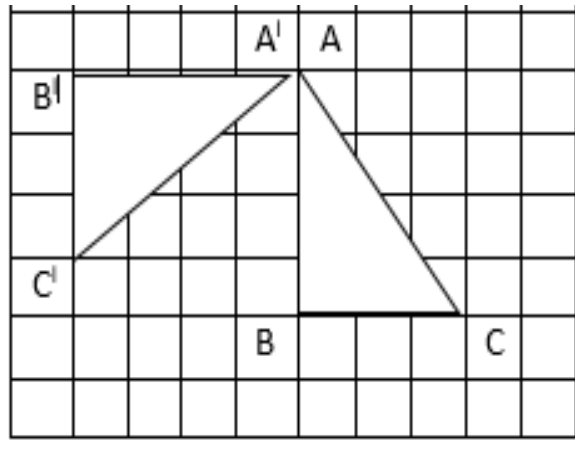
(3)

5.3 How many lines of symmetry does the shape below have?



_____ (1)

5.4 Name the transformation that took place in this diagram.



_____ (1)
[9]

QUESTION 6

6.1 A recipe for making cookies requires 2 cups of flour to make 12 cookies. You want to make 36 cookies.

How many cups of flour will you need?

_____ (2)

6.2 A box of cereal weighs 800 g. Sara eats $\frac{1}{4}$ of the content of the box for breakfast. How much of the cereal is left in the box?

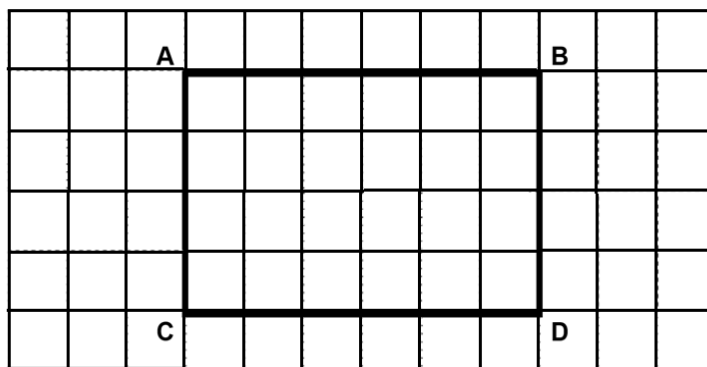
(2)

6.3 A rectangular garden measures 15 m in length and 8 m in width. A path that is 2 m wide is built around the garden.

What is the perimeter of the outer edge of the path?

(3)

6.4 On the grid below, each block is 1 cm by 1 cm. ABCD is a rectangle.



6.4.1 What is the length of side AB? _____ cm (1)

6.4.2 What is the length of side AC? _____ cm (1)

6.4.3 Write the area of rectangle ABCD.

_____ cm² (1)

[10]




QUESTION 7

7.1 Convert the following measurements:

7.1.1 16 m = _____ mm (1)

7.1.2 8,25 kl = _____ l (1)

7.2 Study the international time zones below and answer the questions that follow.

Los Angeles (-8)	Calgary (-7)	New York (-5)
		
04:00am	05:00am	07:00am

7.2.1 What is the time difference between Los Angeles and New York?

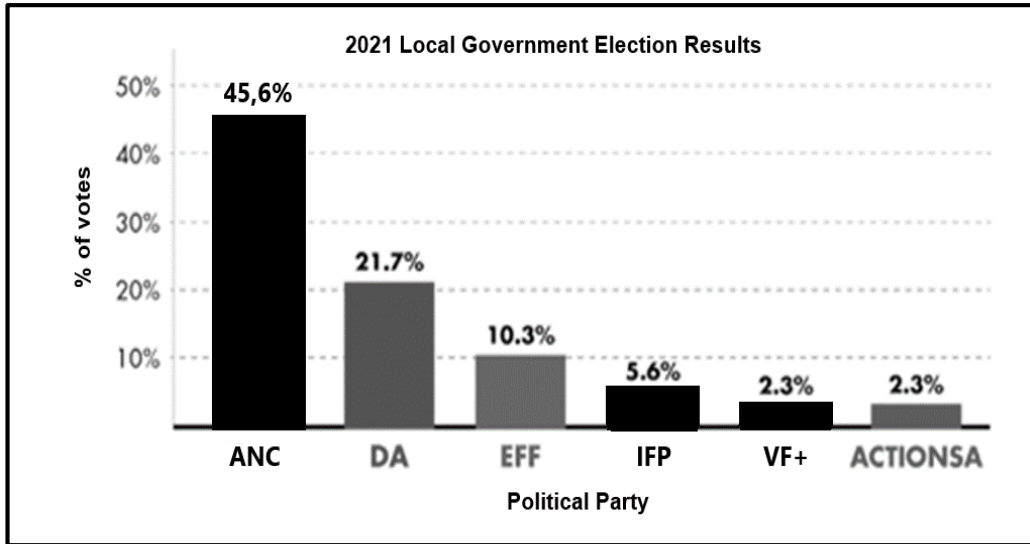
_____ (1)

7.2.2 What would the time be in Los Angeles if it is 07:15 am in New York?

_____ (1)
[4]

QUESTION 8

Study the bar graph below to answer the questions that follow.



8.1 Which political party received the highest percentage of votes?

_____ (1)

8.2 What is the difference between the ANC and DA votes?

_____ (1)

8.3 What is the mode of the given data?

_____ (1)

[3]

GRAND TOTAL: 60