



Laerskool Edleen  
Term 4 2020 - Test  
**Grade 6**

# MATHEMATICS

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Pages: 9

Time: 50 minutes

Examinator: Mrs. L Prinsloo

Marks: 50

Moderator: Mrs. M Stapelberg

## INSTRUCTIONS:

- Read the questions slowly and carefully.
- Answer ALL the questions on the question paper.
- All operations must be shown. You can not use rough paper.
- Write neatly.
- You may not use a calculator.

Question	1	2	3	4	5	6	7	8	9	10	11	12	
Topic	Multiple Choice	Operations	Flow diagrams	Geometric Patterns	Decimal Fractions	Perimeter	Area	Volume	3D Objects Naming	3D Objects Comparison	3D Object Characteristics	Whole Numbers	<b>Total</b>
Mark	<b>10</b>	<b>17</b>	<b>4</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>50</b>
Mark obtained													
Moderator													

**SECTION A**

**MULTIPLE CHOICE QUESTIONS**

**Choose the right answer. Circle the correct letter.**

1.1. What is the place value of 5 in 975 610 442,98 (1)

- A 500 000
- B 5 million
- C HM
- D 5 t

1.2. Calculate the following:  $(60 \div 10) + 5 \times 2$  (1)

- A 22
- B 8
- C 10
- D 16

1.3. What is the rule in the following pattern? (1)

**45,05      45,55      46,05      46,55**

- A + 0,5
- B + 0,05
- C - 0,5
- D - 0,05

1.4. Which item in the next picture is a triangular prism? (1)

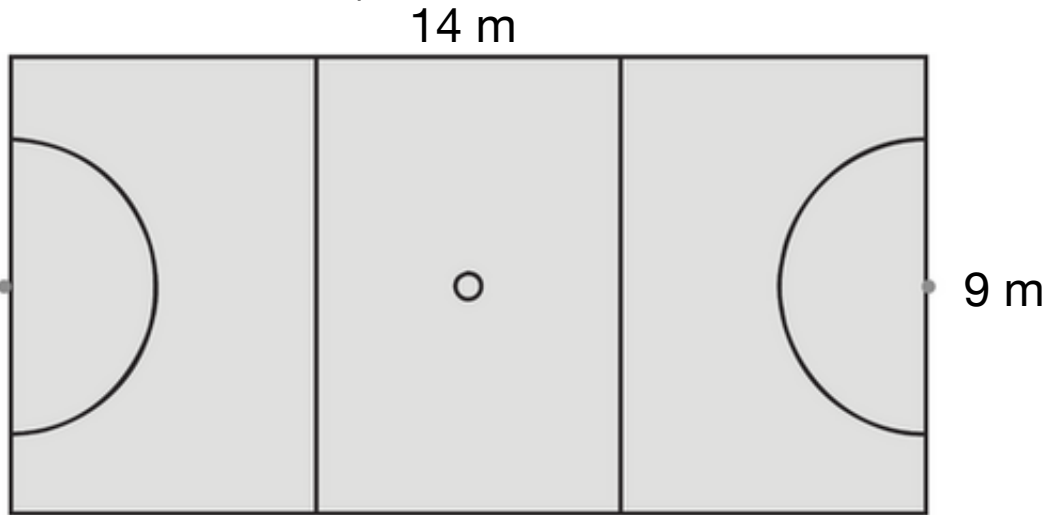


- A Pyramid
- B Can of soup
- C Sail Tent
- D Office Box

1.5. Teacher rounded 23 789 off to 24 000. How did she round off? Until the nearest 10, 100, 1000 or 10 000? (1)

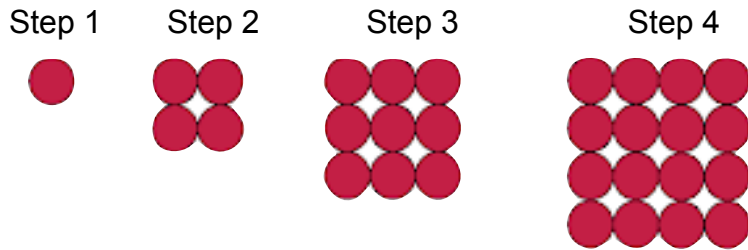
- A nearest 10
- B nearest 100
- C nearest 1 000
- D nearest 10 000

1.6. What is the area of the sports field? (1)



- A 46 m<sup>2</sup>
- B 64 m<sup>2</sup>
- C 136 m<sup>2</sup>
- D 126 m<sup>2</sup>

1.7. Look at the following geometric pattern. How many circles will **STEP 7** contain? (1)



- A 49 circles
- B 28 circles
- C 56 circles
- D 40 circles

1.8. Minke's netball team wants to buy shirts for the netball tour. Her mother can find some at Mr. Price for R45,99 each. How much money does the team need to buy 10 shirts? (1)

- A R459,9
- B R4 950,99
- C R4 599
- D R5 000,90

1.9. Which number sentence is equivalent to the statement below? (1)

***The sum of 500 and 378 is subtracted from the product of 21 and 66.***

- A  $(500 \div 378) \times (21 \times 66)$
- B  $(378 \times 26) - (500 \times 66)$
- C  $(500 - 378) \div (21 \times 66)$
- D  $(21 \times 66) - (500 + 378)$

1.10. The prime factors of 24 are... (1)

- A  $2 \times 2 \times 5$
- B  $2 \times 3 \times 6$
- C  $2 \times 2 \times 2 \times 3$
- D  $2 \times 2 \times 2 \times 2$

**SECTION B**  
**OPERATIONS**

Complete the following operations using any method - show all your steps.

2.1.  $456\,893 + 976\,234$

(2)



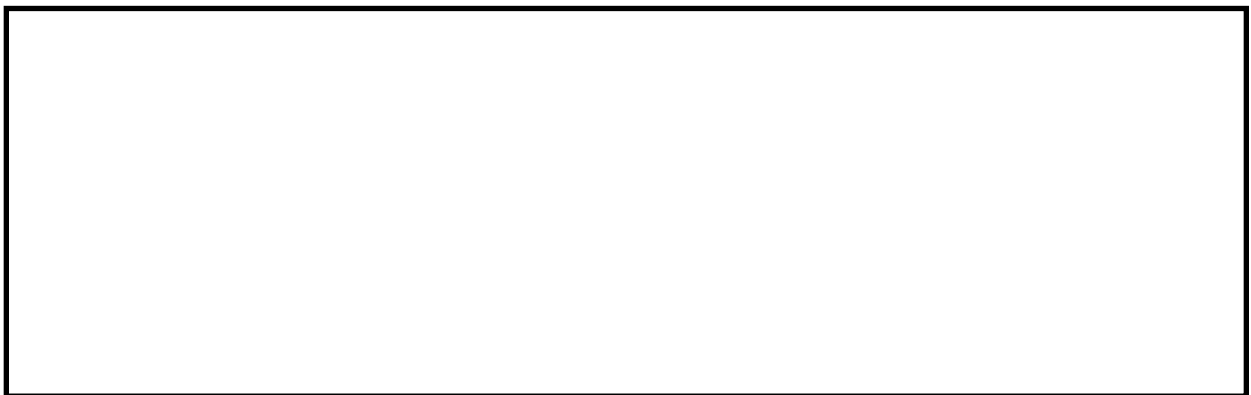
2.2.  $431\,000 - 289\,346$

(2)



2.3.  $6\,251 \times 274$

(4)



2.4.  $3\,925 \div 55$

(3)

2.5.  $50,3 - 9,66$

(2)

2.6.  $18,44 \times 100$

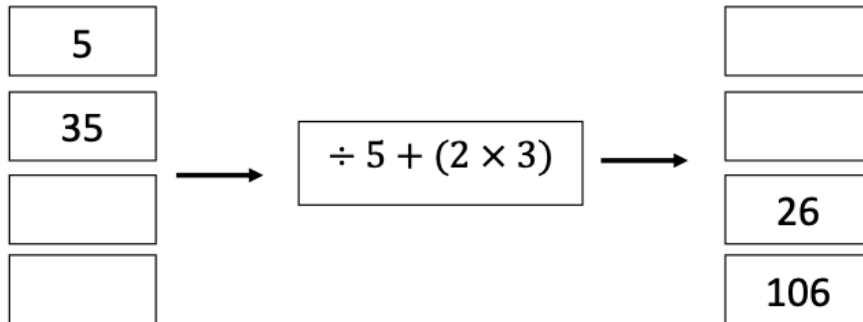
(1)

2.7. Jana has an online business where she sells items such as diaries. She makes R24,00 profit per diary. Jana sold 4 897 diaries this month, how much profit did she make in total?

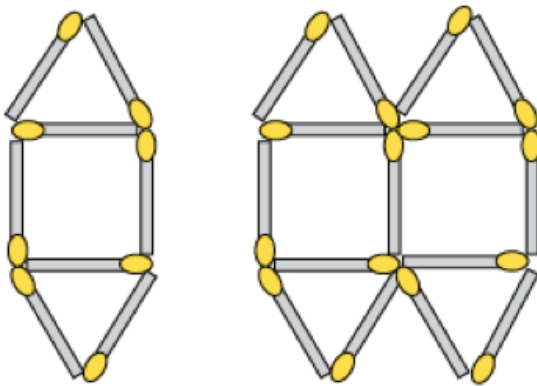
(3)

**SECTION C**  
**COMPLETE THE ANSWERS**

3. Complete the flow chart below by filling in the missing values. (4)



4.1. Draw the following pattern in the row. (1)



4.2. Describe in your own words how the number of matches increases. (1)

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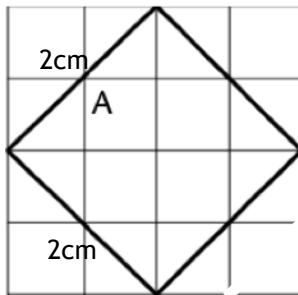
5. Complete the following table on fractions. (3)

<b><u>Decimal Fractions</u></b>	<b><u>Common Fractions</u></b>
0,45	
	$4\frac{3}{10}$
	$\frac{12}{20}$

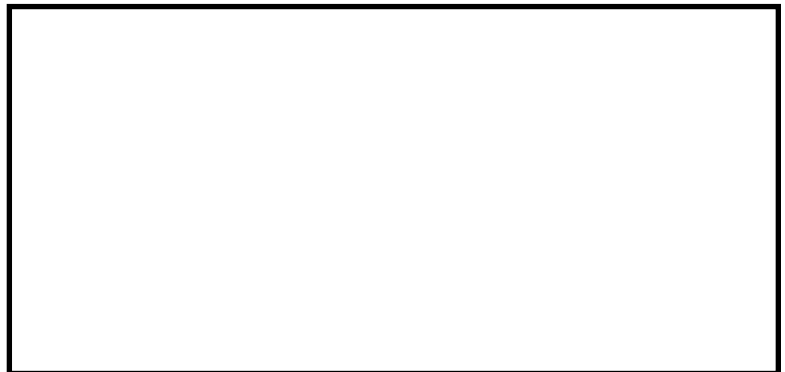
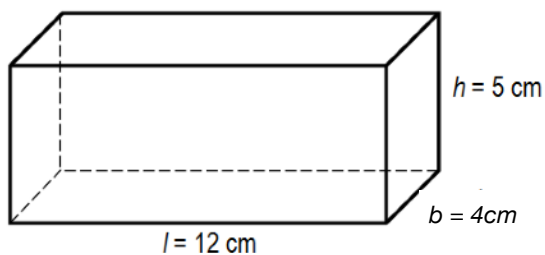
6. The perimeter of a rectangular figure is 28cm, if the length is 8cm, what is the width of this figure? (2)



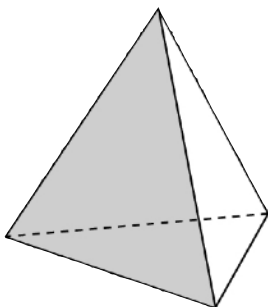
7. Calculate the area of the following figure. (2)



8. Calculate the volume of the following figure. (3)



9. Name the following 3D object. \_\_\_\_\_ (1)





10. Name one difference and one similarity between: (2)

***A Tetrahedron and a Square-based Pyramid***

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11. Name the following 3D objects: (3)

a. This object has 3 faces, 2 edges and no angles.

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b. This objects have 6 faces, 12 edges and 8 angles.

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12. What is the largest number that can be built with the following figures? (1)

**3; 2; 0; 9; 0; 4**

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**TOTAL: 50**