Blouberg Ridge Primary School
Grade 6
Mathematics
Paper 2
Final Examination Paper 2019

INSTRUCTIONS:

1.   This paper consists of 7 pages

2.   Show all working out.

3.   Read the instructions with care and answer each question carefully.

4.   It is in your own interest to write legibly and to present your work neatly.

5.   No calculators may be used.

6.   All answers need to be in their simplest form.

Section A: Data Handling: [6]
Question 1: The pie chart shows the after school activities of 500 Grade 6 pupils.

Sales

Walking 20%

Music

Reading 5%

Soccer 30%

TV 35%
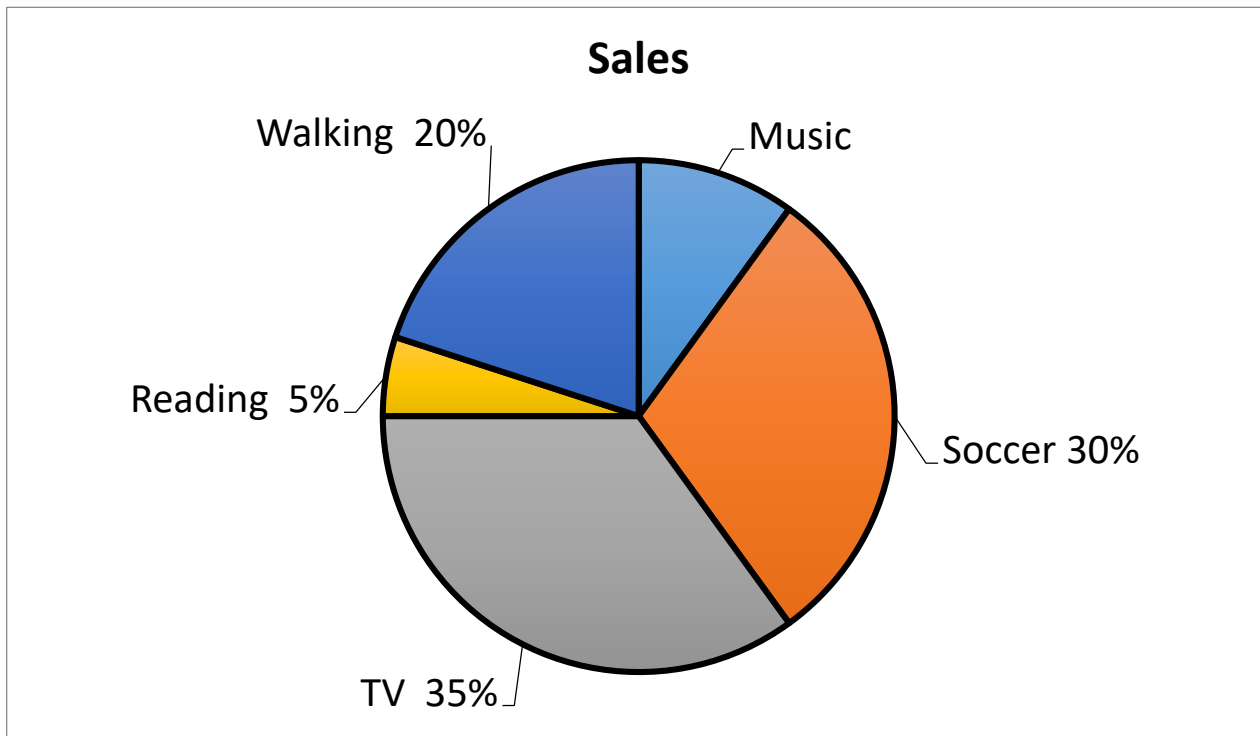
1.1)   What is the activity that is done the least by Grade 6 pupils after school?   **RO**   **(1)**

_____

1.2)   What fraction of pupils walk after school? (Write your answer in the simplest form) **KQ**   **(1)**

_____

_____

1.3)   What percentage of pupils do music after school?   **KQ**   **(1)**

_____

_____

Question 2: Use the data below and answer the following questions.

12, 13, 18, 12, 18, 22, 13, 18, 10

2.1) What is the median (show all calculations)?   **KQ**   **(2)**

_____

_____

2.2) What is the mode?_____   **RO (1)**

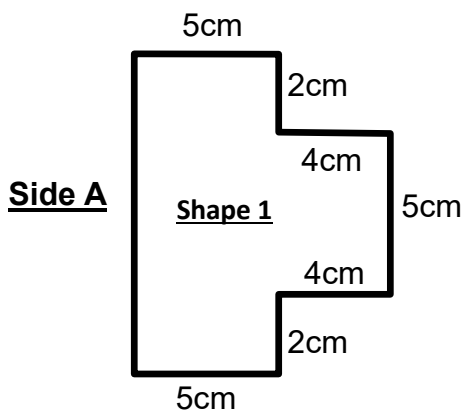**Section B: Area and Perimeter.** [7]

Question 3.

3.1) **Fill in the missing words** in the following sentences. (2)

Area is the amount of _____ a shape covers.   **RO**

Multiply the _____ by the width/breadth to work out the area of a rectangle   **RO**

3.2) Study the Shape 1 below and answer the questions that follow.

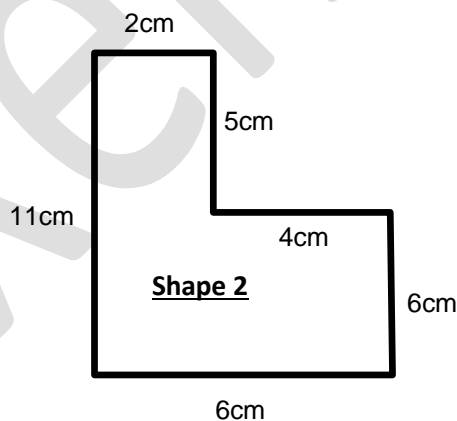3.2.1) What is the length of the missing Side A: _____cm ?   **KQ**   (1)

3.2.2) The perimeter of Shape 1 is 36 cm. Explain how they obtained this answer. **RO**   (1)

_____

_____

3.3) Study the Shape 2 below and answer the questions that follow.

3.3.1) Work out the area of Shape 2 (show all calculations).   **CP**   (3)

_____

_____

_____

_____

Section C: Angles   [3]

Question 4: Study the following shape and label all the angles.   RO
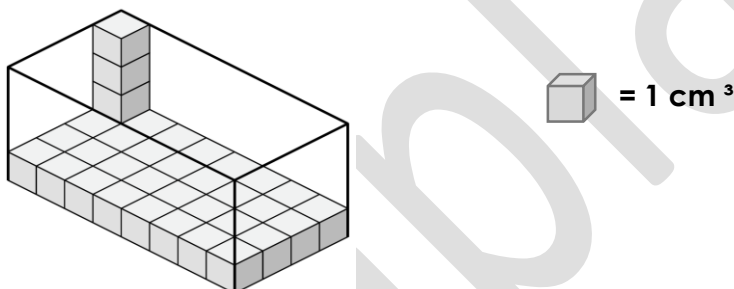

a) _____   b) _____   c) _____

Section D: Volume and Capacity: [4]

Question 5: Look at the following container below and answer the questions that follow.

= 1 cm³

5.1) What is the volume of this container? _____   **KQ**   (1)

5.2) What is the capacity of this container (Show all calculations)?   **KQ**   (2)

_____

_____

5.3) How many more blocks will be needed to fill the box to capacity?   **KQ**   (1)

_____

Section E: Views.

Question 6

Look at the front, right side, left side and top view. Match each set of views with a 3D object.
Circle the matching 3D object.   RO   (2)
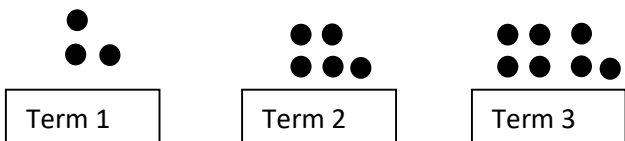
6.1)   6.2)

4

Section F: Patterns : **[4]**

Question 7

| Term 1 | | Term 2 | | Term 3 |

7.1) Complete the following table   **RO**   **(1)**

Shape number	1	2	3	10
Number of cubes	3	5	7	21

7.2) Write a general rule for this pattern. _____ **KQ**   **(1)**

7.3) John has **10 apples** and applied the following rule to get an answer: 10 apples **x 5 – 2** = 48. Sue has **B** amount of apples and applied the same rule but got an answer of 98. How many apples does Sue have? Show all your working out.   **CP**   **(2)**
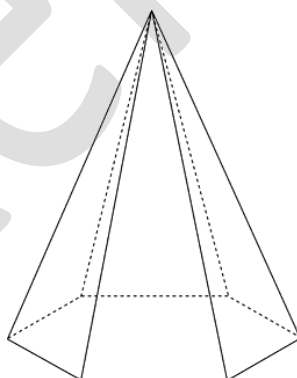
_____

_____

_____

Section G: 3D Objects. **[2]**

Question 8. Study the image of a pyramid and complete the table below.   **RO**

Name of the object	Number of Edges	Number of Vertices	Number of Faces
Hexagonal Pyramid	_____	_____	**7**

5

Section H: Transformations: [3]
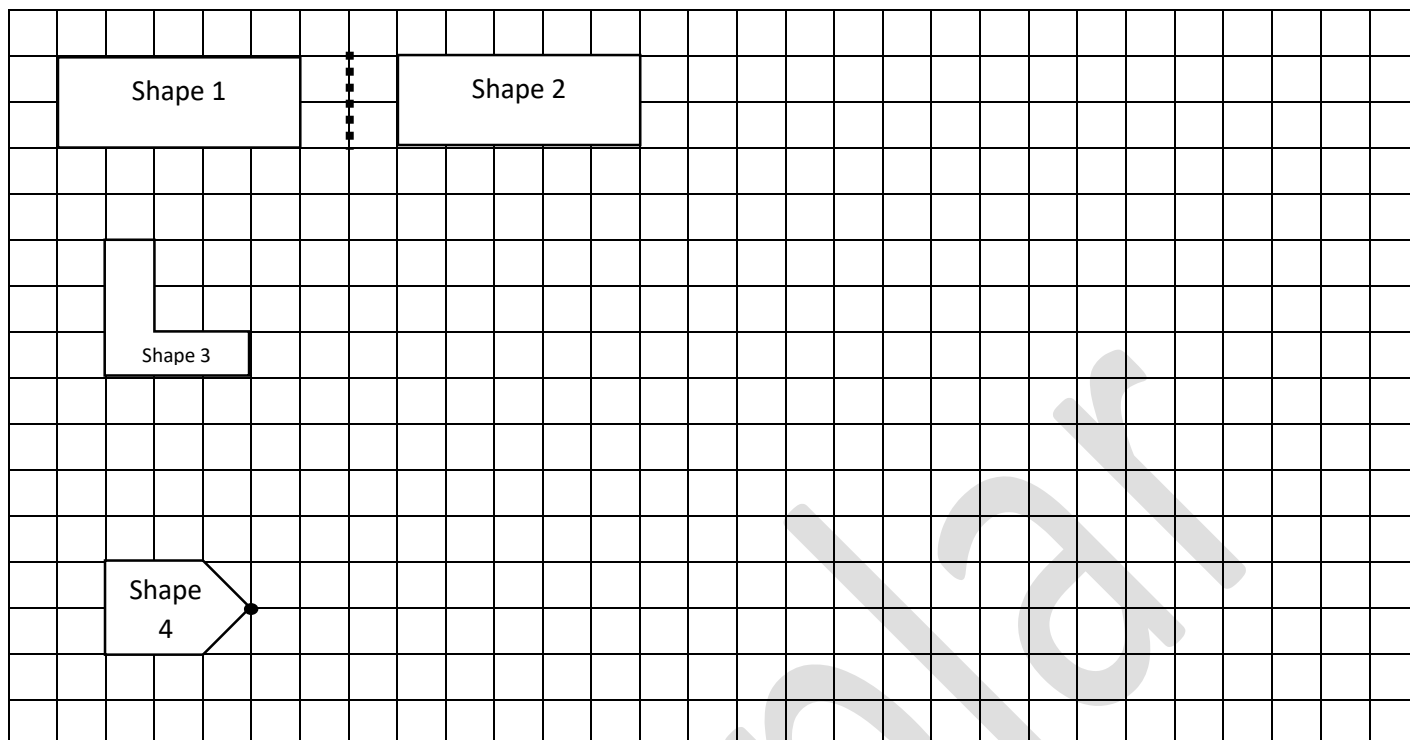
Question 9.

8.1) What transformation is taking place from Shape 1 to Shape 2? _____ **RO**

8.2) Draw an enlargement X2 the size of Shape 3 on the grid paper and **label it A**. **KQ**

8.3) Rotate Shape 4 and $\frac{1}{2}$ a turn to the right, **draw and label it B.** **KQ**

Section I: Word Problems [9]

Question 10: Use the RNWA method to answer the following word problems.

101) Mrs Coertzen carried 750g of tomatoes; 3,5 kg of cabbage and $25\frac{1}{4}$ kg of potatoes to her car. What is the total weight she carried to her car? (Give your answer in kilograms) **PS (3)**

R:

N: _____

W: _____
_____
_____
_____
_____
_____

A: _____

10.2) Riley is busy running a 40km marathon. He is running at 5,5 km per hour.

    a) How far has Riley run in kilometres if he has been running for 240 minutes?   **CP**   **(3)**

R:

N: _____

W: _____
_____
_____
_____
_____
_____

A: _____

    b) If he completes $\frac{3}{4}$ of the race how many kilometres has he run thus far?   **PS**   **(3)**

R:

N: _____

W: _____
_____
_____
_____
_____
_____

A: _____