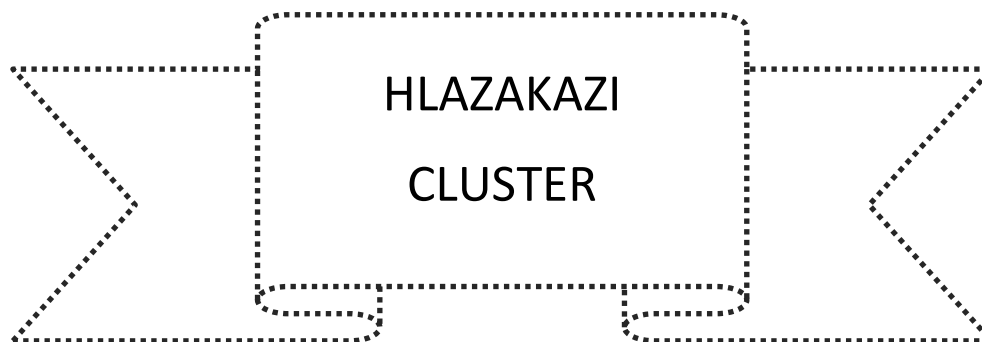


**MATHEMATICS 2021****GRADE 6 TEST****TERM 4****MARKS: 40****TIME: 1 $\frac{1}{2}$ HOURS**

CIRCUIT	
SCHOOL	
CLASS (e.g. 7 A)	
NAME & SURNAME	

GENDER (✓)**DATE OF BIRTH**

BOY	GIRL
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y	y	y	y	m	m	d	d
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Instructions to learners:

1. Read all instructions carefully.
2. Question 1 consists of 5 multiple choice questions. Circle the letter next to the correct answer.
3. Answer Question 2 - 6 in the spaces or frames provided.
4. Show all working (where necessary).
5. The use of calculators is not allowed.
6. Write neatly and legibly.
7. This test consists of 7 pages including the cover page.

Question 1

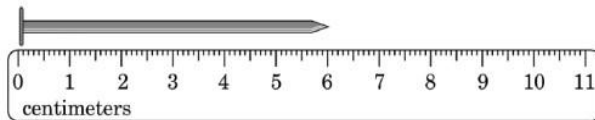
Circle the letter with the correct solution or answer.

[5]

- 1.1 The appropriate instrument that can be used to measure the length of a book. (1)

A. Measuring tape B. Ruler C. Metre ruler D. Trundle wheel

- 1.2 What is the length of the nail in centimeters?. (1)



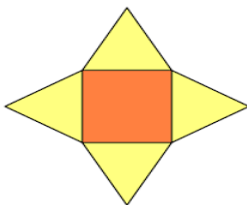
A. 4 cm B. 5 cm C. 6 cm D. 7 cm

- 1.3 Write the time shown in the clock below in 24 hour format. (1)



A. 7h20 B. 7h40 C. 04:35 D. 04:20

- 1.4 Which 3D objects that can be formed by this net? (1)



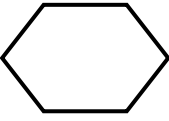
A. Rectangular Pyramid B. Tetrahedron C. Square based prism D. Square based pyramid

- 1.5 The mode in the data set: {51 ; 52 ; 42 ; 52 ; 62 ; 52} is _____. (1)

A. 42 B. 51 C. 52 D. 62

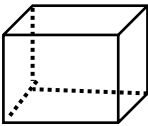
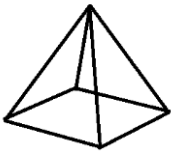
Question 2

2.1 Complete the table below: [4]

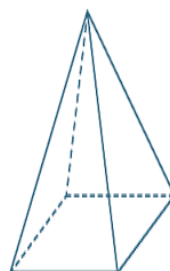
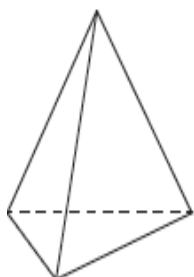
Shape	Name of shape	Types of interior angles (Acute, Right , Obtuse, Reflex)
	2.1.1 _____	2.1.2 _____
	2.1.3 _____	2.1.4 _____

2.2 Study the 3D objects below and answer the questions that follow: [6]

Complete the table below: (4)

3D Object	Name of the object	Number of faces	Number of vertex	Number of edges
	2.2.1 _____	6	2.2.2 _____	12
	Square-based Pyramid	2.2.3 _____	5	2.2.4 _____

2.3 Write down one (1) similarity and one (1) difference between a **tetrahedron** (2) and a **square-based pyramid**.



Similarity	Difference

Question 3

Solve the following word problems. (Show all your working)

[4]

3.1

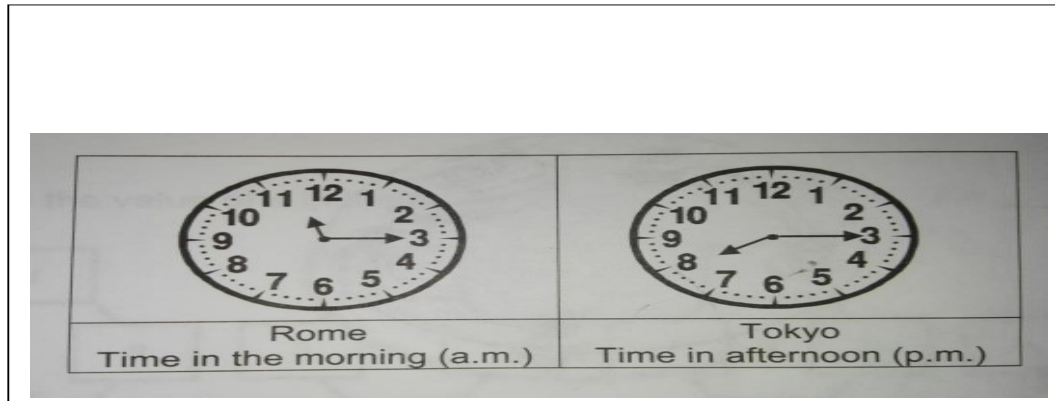
Mrs Zikode uses 5 250 ℓ of water for washing ; 3 135 ℓ for cooking (2) and 10 500 ℓ for cleaning per month. How much water did Mrs Zikode use per month?

3.2

The bus travels at 150 km per hour. Calculate the distance travelled by bus (2) after 3 hours.

Question 4

- 4.1 Look at the clocks below and answer the questions that follow:

[2]

- 4.1.1 Look at the time in the clocks and calculate the difference between Rome and Tokyo. (1)

- 4.1.2 If it is 17:00 in Tokyo, what time will it be in Rome? (1)

- 4.2 Convert the following:

[3]

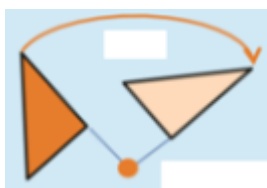
4.2.1 $6\,000\text{ ml} = \underline{\hspace{2cm}}\text{ l}$ (1)

4.2.2 $5,65\text{ kg} = \underline{\hspace{2cm}}\text{ g}$ (1)

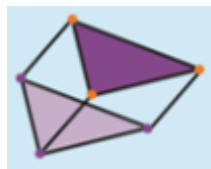
4.2.3 $9\text{ cm} = \underline{\hspace{2cm}}\text{ mm}$ (1)

- 4.3 In each case below, state whether the triangle is a translation, rotation or reflection of the other triangle. **[2]**

- 4.3.1 (1)



4.3.2

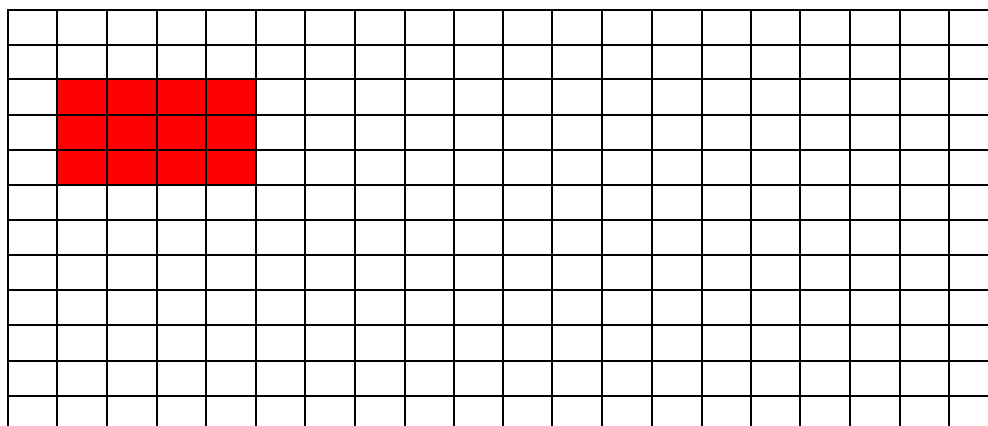


(1)

4.4

Enlarge the shape by the scale factor of 2

[1]



Question 5

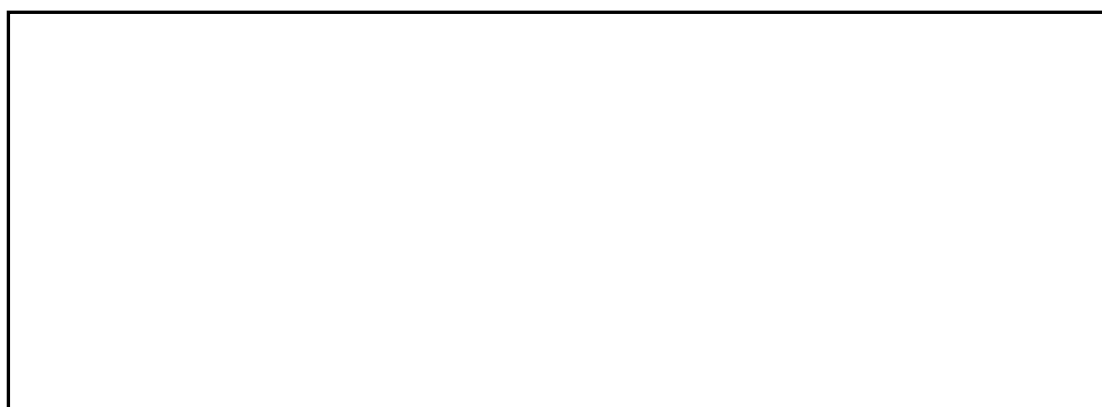
Calculate the following. (Show all your working)

[9]

5.1

Calculate the perimeter of a classroom if the length is $7m$ and breadth is $4m$.

(3)

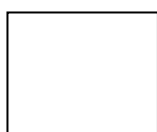


5.2

Calculate the area of the square below.

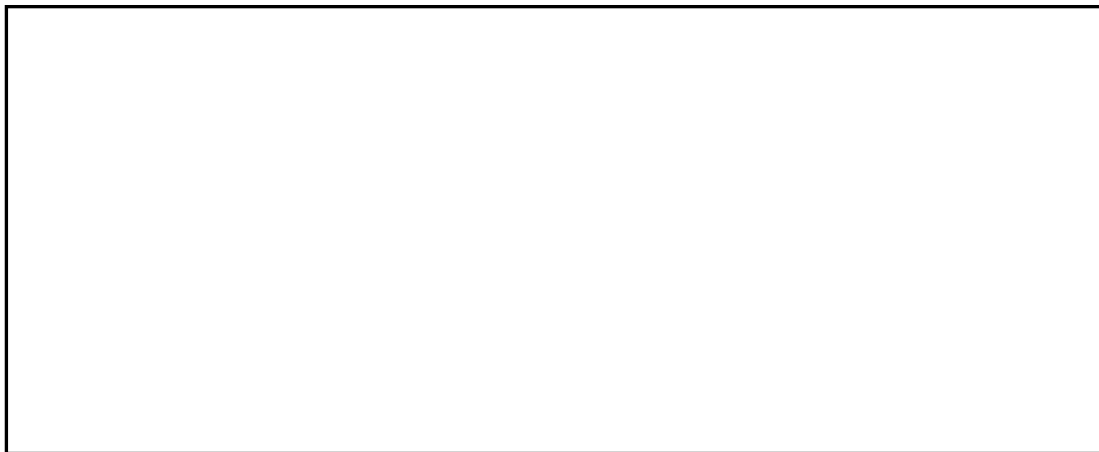
(3)

5 cm



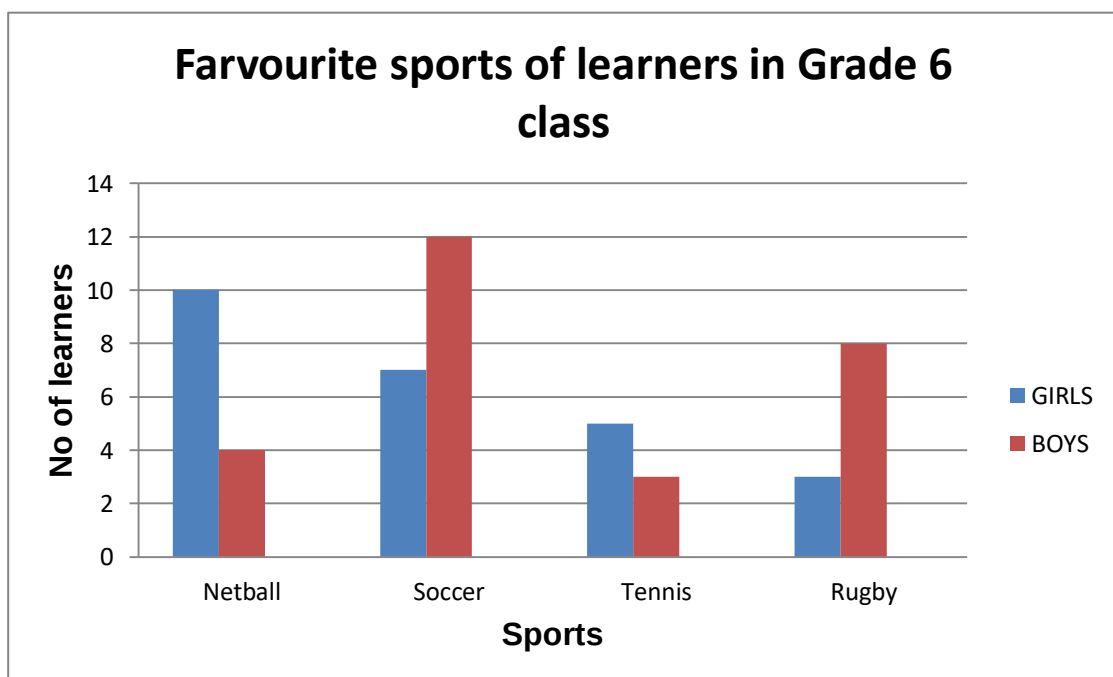


- 5.3 Calculate the volume of a rectangular prism if its length is $5mm$; breadth is $3mm$ and height is $4mm$. (3)



Question 6

- 6.1 Read the information on the bar graph and answer the questions that follow: [4]



6.1.1 Which sport is liked the most by boys? (1)

6.1.2 What is the favorite sport for girls? (1)

6.1.3 How many learners like netball? _____ (2)

THE END