GPLMS MATHEMATICS						
NOVEMBER 2 GI	014 EXAMINATION RADE 7					
DURATION: 90 MINUTES 2014	DATE:NOVEMBER					
SURNAME:						
NAME:						
DATE OF BIRTH:						
SCHOOL:						
PROVINCE:						
NAME OF TEACHER:						

Instructions to Learners:

- 1. Answer all questions
- 2. Write neatly and show all your calculations
- 3. No Calculator allowed
- 4. Duration 2 hours (120 minutes)

SECTION A

There are **FIVE** multiple choice questions in Section A. For each question **FOUR** possible answers are given and only **ONE** answer is correct. For each multiple choice question select answer and indicate your choice by means of a **CIRCLE** on the corresponding letter.



(5marks)



2. Choose the statement:

73 =

- A. 7 × 3
 B. 7 + 7 + 7
 C. 7 × 7 × 7
 D. 3 × 3 × 3 × 3 × 3 × 3 × 3
- 3. A factory manufactures dresses and shirts: 3 dresses are manufactured for every 4 shirts. In a week the factory produced a total of 420 dresses and shirts. How many of these were dresses?
 - A. 180 B. 240 C.140 D.315
- 4. A square has 2 diagonals and a pentagon has 5. How many diagonals does a regular octagon have? (An octagon has 8 sides.)



A.19	B. 28	C.16	D. 24

- 5. Bus A leaves Gauteng at 10:00 and travels north at 50 km/h. Bus B leaves Gauteng at 12:00 along the same route at 70 km/h. At what time will bus B pass bus A?
- A. 11:30 B. 15:00 C. 18:00 D. 17:00

SECTION B: Answer ALL the questions

QUESTION 1 marks)

- 1.1 Complete: a. 7 342 651 = (7 000 000) + (3 × 100 000) + (_____) +2 000 + 651 (1)

 - c. Simplify: 10 + 4 ÷ 2 = _____(1)
 - d. Fill in the correct operational sign: 10 _____. 2 + 4 = 9 (1)
 - e. (14 ÷ 2) + (51 48) = _____
 - f. $2^3 =$ _____
 - g. Using Prime factors determine the following: $\sqrt{16} =$ (2)

(10

- h. Write down the multiples of 7 between 21 and 56. (1)
- i. Re-arrange the numbers from the smallest to the biggest. 4,5:4,3;4,01;4,8
 - (1)

QUESTION 2 marks)

2.1 Fill <; > or = in the space provided:
$$\frac{2}{3}$$
 $\frac{1}{2}$
(1)
2.2 Calculate:
a. $\frac{2}{3} - \frac{1}{6}$ (Write your answer in the simplest form) (3)

b.
$$2\frac{2}{3} + 1\frac{2}{5}$$
 (Leave your answer in improper form) (4)
c. $5\frac{1}{3} \times \frac{3}{8}$ (2)

d.
$$\frac{3}{4}$$
 of 28 (2)

QUESTION 3

3.1 What is the place value of the underlined digit in 5<u>3</u>486? ______ (1)

(8 marks)

(12

3.2 a.	Calculate: 6,5 – 2,34	(2)	
b. c.	0,06 × 0,3 3,7 × 1,4	(2)	

QUESTION 4 marks)

4.1 Fill in <; > or =:

4.2

Calculate:

a. $-18 - 13 = (1)$	b. $8 + (-27) =$	(1)
c. $-75 - (-25) =$		
d. $24 = 3 \times r$	e. $14 + x = 16 - 8$	(2)
STION 5		(7

QUESTION marks)

5.1 Find the value of Δ in the following equations:

(3)

(9

a.
$$14 + \Delta = 16 - 8$$

(1)
b. $24 = 3 \times \Delta$
(1)
5.2
Insert brackets to make the number sentence $18 + 12 \div 2 = 15$ true.

5.3 a) Solve the following by inspection and check your solution:

(4)

i. 9 _z = 54	Check:
ii. $y - 4 = 12$	Check:

QUESTION 6 1. Complete the flow diagram by indicate what both "a" and "b" will be below:		(10 marks) (2)
1	4	
2	7	
3	10	
4	13	
10	31	
c) Write the rule of the above pattern:		(3)

2. Making patterns by sliding (translating), reflecting and turning (rotation):



3. What is the value of A in the fourth figure? A = _____



QUESTION 7: DATA HANDLING

(26 marks)

(1)

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Da	ys	1	2	3	4	5	6	7	8	9	10	11	12	13
Nu	mber of learners	16	14	13	15	16	14	17	16	17	16	16	15	15
i.	What is the mode (most fr	equer	nt numl	per)?										
ii.	Write the number of learne	ers for	the 13	8 days i	in asce	nding	order:		_					
iii.	What is the median (middle-most number)?													
iv.	What is the range?													

a) The table gives the number of learners in a Grade 7 class who come to school by bus over a period of 13 days.

<u>v.</u>	Calculate the mean (average)? Ro	ound your answer off to 1 decimal place.	(4)
Ļ			
vi.	Display the above data for the follo (6)	owing days in a frequency table:	
	_		_

Days	Tally	Frequency
Day 3		
Day 4		
Day 5		
Day 6		
Day 7		

vii. Use the above frequency table and draw a bar graph on the given grid? (5)



b. This is the scores of J. Kallis a South African cricket player:

17; 61; 25; 37; 35; 45; 59; 19; 22; 38; 44; 32; 26; 55; 43

1				-	7	9	
2	2		5	6			
3	2		5	•	78		
4		34	5				
5			5			9	
6	1						
	Answe	er the foll	lowiı	ng qi	Jestic	ons:	
	i.	Name	the	displ	ay of	data?	
							(1)
	ii.	Write c	lowr	n the	lowe	st score	
							(1)
		\A/rite_e		. the	h:ah		
	III.		IOWI	i the	nign		. (1)
	iv.	Find th	e m	edia	n		
							(1)
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٧.	Calculate the mean?
٧.	

Question 8 PROBABILITY

A bowls player has 6 green balls, 4 red balls and 10 yellow balls in his bowls bag. What is the probability of drawing the following at random?

a)	A green ball :	(1)
b)	A ball :	(1)
c)	A green or red ball :	(1)

Question 9

Radio and rate

(4 marks)

(6 marks)

(2)

(3 marks)

If Thando gets 10 marks and Dani 20 for a project, complete the following using the simplest form:

a)	The ratio of Thando'smarks to Dani's marks is	(1	I)
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b) Dani's mark ... times Thando's marks. _____ (1)

- i) What is the ratio water to orange juice cordial? _____ (1)
- ii) Write the fraction (in the simplest form) _____ (1)

Question 10 Geometry of 3D Objects



А



	Refer	to the	above	3-D	figures	and	com	plete	the	table:
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Questions	Α	В
a) the name of each figure		
b) how many faces in A and B.		
c) what the shape of the faces are.		
+		

TOTAL: 100