Section 1

Computation

(20 Marks)

Answer *ALL* the questions in this section. Clearly show ALL your working in the space provided.

1. ((a)	Here a	are 6	numl	er o	card	S
	u	110101	$a_1 \subset C$	110111	J CI '	cai a	J

7

7

7

8

8

8

Use 5 of the number cards to make this problem correct.

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6 9 1

(3 marks)

(b) Choose **two** different numbers from the list below which when multiplied together give 10 000.

20, 50, 200, 500, 10 000

2. (a) Which two numbers when multiplied give **24**, and when added give **11**?

_____ and ____

(2 marks)

(b) Write a number **greater than 30 but less than 100** in each space.

	Odd	Even
Multiple of 9		
Multiple of 7		

(4 marks)

3. Write the largest possible **three digit odd number** using three different digits.

4	Calculate	tha	fol	lowina:
4.	Calculate	uie	101	lowing.

(a)	5	+	4	X	7
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(c)
$$7 + 0.82 + 1.5$$

(2 marks)

(2 marks)

(b) 20 000 - 83

Section 2 Problem- Solving (30 Marks)
Answer ANY <u>THREE</u> questions in this section. Clearly show <u>ALL</u> your working in the space provided after each question. (10 marks each)

provided	provided after each question. (10 marks e					
5 . Here is	the start of	a pattern fo	ormed from			
dots ar	nd lines.					
Pattern 1	Pattern 2	Pattern 3	Pattern 4			

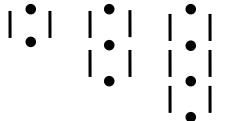


Figure 1: Patterns of dots and lines

(a) Draw pattern 4 in the space above.

(b) Complete the table which shows the number of dots and lines in each pattern.

Pattern	Pattern	Pattern	Pattern	Pattern
number	1	2	3	4
No. of dots	2	3	4	
No. of lines	2	4	6	

(2 marks)

(1 mark)

- (c) If the patterns in Figure 1 are continued:
 - (i) How many dots will there be in pattern 8?

(3 marks)

(ii) Which pattern will have 20 lines?

(2 marks)

(iii) How many lines will there be in the pattern with 8 dots?

6. (a) There are 23 children and 3 adults going on a boat trip. The total bill for the trip is \$672.50 as shown below:

Children \$575.00 Adults \$ 97.50 \$672.50



(i) How much does the boat trip cost for one adult?

(2 marks)

(ii) What would be the total bill if an extra 9 children went on the trip?

(b) Tickets for a concert cost \$7.25 each for children and twice that amount for adults.

How much should a family of 5 adults and 6 children pay to attend the concert?

(3 marks)

(5 marks)

7. The table shows the morning Timetable
for three School Buses taking students
from the same Park to three different
schools. Study the table then answer
the questions that follow.

The table shows the arrival time for each stop.

	Park	Shop	Post Office	School
Bus 1	7:21	7:39	8:25	8:40-CLS
Bus 2	7:55	8:15	8:35	8:59-VPS
Bus 3	7:35	8:00	8:45	8:30-MTS

(a) Which bus is the first to arrive at the Park?

(1 mark)

(b) Which bus arrives at the Shop last?

______(1 mark)

(c) How long does it take each bus from the time it arrives at the Park to the time it arrives at the School?

Bus 1

(2 marks)

Bus	2
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_____(2 marks)

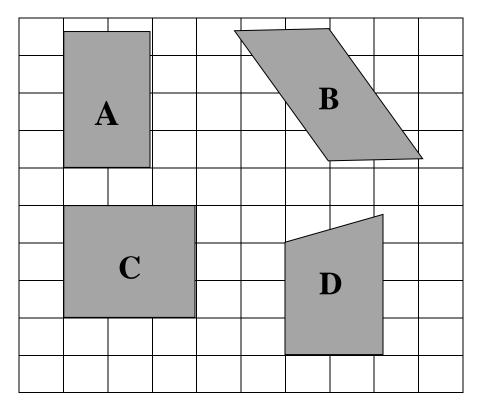
Bus 3

(2 marks)

(d) If all Schools begin at 9:00am, students from which bus will have the shortest time before school begins?

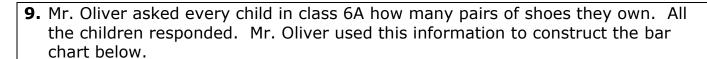
Give a reason for your answer.

8. Here are four quadrilaterals shown on a square grid.



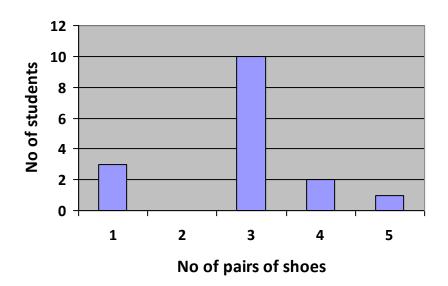
Write the letter(s) of each quadrilateral in the correct column in the table below. There could be more than one answer to a description below.

(1 mark)
(1 mark)
(2 marks)
(2 marks)
(2 marks)
(2 marks)



Everyone owns at least 1 pair of shoes and no one owns more than 5 pairs.

Graph showing pairs of shoes for students in Mr Oliver's Class



(a) Use this information to complete the bar chart: 5 students own two pairs of shoes. Draw the bar on the graph above.

(2 marks)

(b) How many students own 4 pairs of shoes?

(c) How many students are there altogether in Mr. Oliver's class?

(3 marks)

(d) How many pairs of shoes do all of the students in class 6A own altogether?

(1 mark)

(4 marks)

G6NA 2015 END OF TEST