TRINIDAD AND TOBAGO	TRINIDAD AND TOBAGO
SECONDARY ENTRANCE ASSESSMENT	SECONDARY ENTRANCE ASSESSMENT
ANSWER BOOKLET	ANSWER BOOKLET

FILL IN ALL THE INFORMATION REQUESTED CLEARLY AND LEGIBLY.

TEST CODE 0 4 2 3 4 0 1 1

SUBJECT _MATHEMATICS 2015_

Please place your label here.

READ THE FOLLOWING DIRECTIONS CAREFULLY:

1. This test is divided into THREE sections.

2. Make sure you read the instructions before you start to work on any section.

3. Write all your answers in this test booklet.

4. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

TEST CODE 0 4 2 3 4 0 1 1

SUBJECT _MATHEMATICS 2015_

Please place your label here.

WRITE THE NAME OF YOUR SCHOOL BELOW:

WRITE YOUR FULL NAME BELOW:

DATE OF BIRTH

Day	Month	Year

SEX
MALE ☐
FEMALE ☐

DO NOT WRITE IN THIS SPACE

FOLDER NUMBER

DO NOT WRITE IN THIS SPACE

FOLDER NUMBER

Measurement & Money	4	9–15		
	5	29–35		
	6	43–44		
Geometry	7	16–18		
	8	36–39		
	9	45		
Statistics	10	19–20		
	11	40		
	12	46		
		TOTAL		

SECTION I

Each question is worth 1 mark. Answer ALL questions.
Show ALL working in the Working Column.

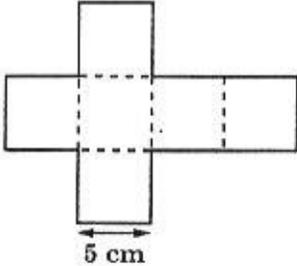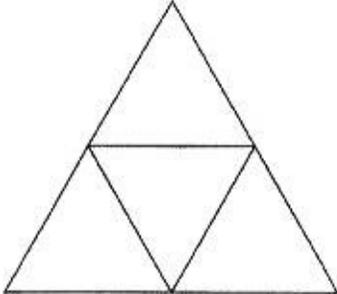| No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
1.	7469 − 2361 Answer _____		1.		
2.	Write in figures: Two hundred and five thousand and seventy-three. Answer _____		2.		
3.	State the VALUE of the <u>underlined</u> digit in the following numeral. 75<u>3</u> 291 Answer _____		3.		
4.	Write the number in the box that CORRECTLY completes the following sentence. $\frac{1}{12} \times \boxed{} = 20$ Answer _____		4.		

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
5.	Write the following numbers in descending order (starting with the GREATEST in value). 5173, 5731, 5317 Answer _____		5.		
6.	Write $\frac{39}{4}$ as a mixed number. Answer _____		6.		
7.	A chocolate factory produces 250 boxes of chocolates in a day. Each box contains 30 chocolate bars. How many chocolate bars are produced in a day? Answer _____ bars		7.		
8.	Complete the following number sequence. 4, 9, 15, 22, 30, 39, _____ Answer _____		8.		

DO NOT WRITE HERE	KC (2)	AT (4)	PS (2)	TOTAL (8)	

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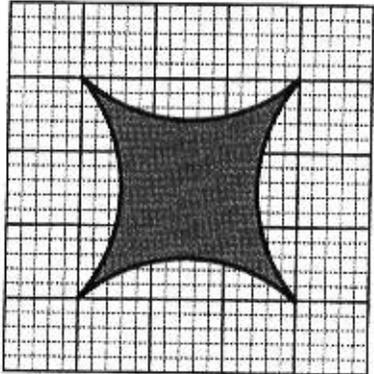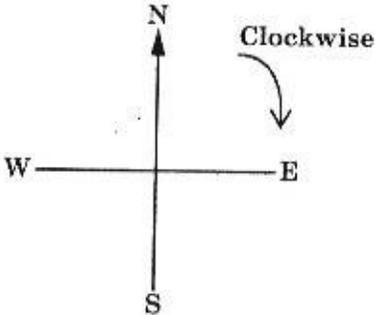| No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
9.	Write the time shown on Clock A, in digital notation, on Clock B. Clock A Clock B Answer :		9.		
10.	Convert 2.369 kilometres to metres. Answer _____ metres		10.		
11.	What is the length of the pencil to the NEAREST centimetre? Answer _____ cm		11.		
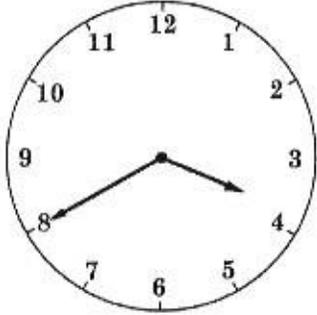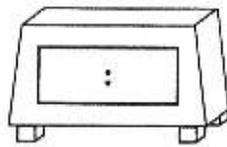
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
12.	Chad buys a bag of oranges for $9.50. How much change should he get if he pays with a $20.00 bill? Answer $ _____		12.		
13.	kg g 6 763 + 3 286 _____ Answer _____		13.		
14.	A laptop was advertised as shown below. $4500 plus 15% VAT Calculate the VAT to be paid. Answer $ _____		14.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
15.	The following net is for a cube with edges of 5 cm. Calculate the perimeter of this net. 5 cm Answer _____ cm		15.		

DO NOT WRITE HERE	KC (2)	AT (4)	PS (1)	TOTAL (7)	

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
16.	What is the name of the solid shape that can be made with the following net? Answer _____		16.

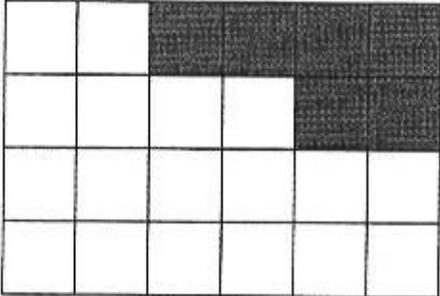| No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
17.	How many lines of symmetry are there in the following shaded shape? Answer _____ lines		17.		
18.	Tyson is facing West and makes THREE $\frac{1}{4}$ -turns in a clockwise direction. In which direction will Tyson now be facing? Answer _____		18.		

DO NOT WRITE HERE	KC (1)	AT (1)	PS (1)	TOTAL (3)

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
19.	Altogether, four pupils own 39 marbles. Complete the following chart to show the tally for Tom's marbles. **Marbles Owned**		19.		

Pupil	Number of Marbles	Tally
Raj	8	ⵑ⵰ |||
Tom		
Carla	4	||||
Sita	16	ⵑ⵰ ⵑ⵰ ⵑ⵰	

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here

			KC	AT	PS

20. The following bar graph represents some TV shows viewed by the pupils in a Standard 3 class.

Popular TV Shows

How many **more** pupils need to view Smallville for it to be as popular as Goodluck Charlie?

Answer _____ pupils

20.

DO NOT WRITE HERE	KC (0)	AT (1)	PS (1)	TOTAL (2)

SECTION II

Each question is worth either 2 or 3 marks. Answer ALL questions.
Show ALL working in the Working Column.

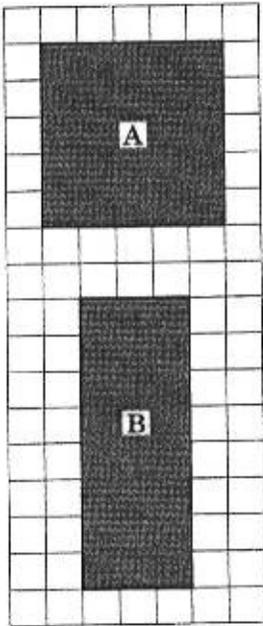| No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
				KC	AT	PS
21.	$2\frac{7}{8} + 4\frac{1}{3}$ Answer _____ (2 marks)		21.			
22.	Maria has 413 stamps. Her brother has 49 stamps fewer than she has. How many stamps do they have ALTOGETHER? Answer _____ stamps (2 marks)		22.			
23.	The following diagram shows a wall that is to be covered with identical square tiles. The shaded area is already tiled. Express the area of the tiled portion as a **decimal fraction** of the area of the ENTIRE wall. Answer _____ (2 marks)		23.			

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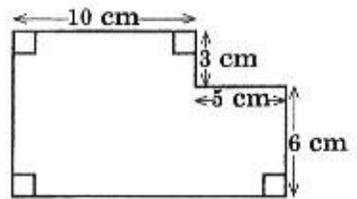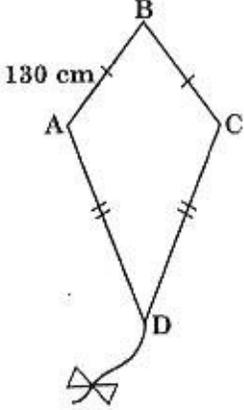| No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
24.	Express as a SINGLE decimal fraction $$\frac{5}{100} + \frac{3}{10}$$ Answer _____ **(2 marks)**		24.		
25.	Jerry has 40 stickers that are either red, yellow or blue in colour. There are 24 red ones, and equal numbers of blue and yellow. Calculate the percentage of his stickers that are yellow. Answer _____ % **(3 marks)**		25.		
26.	Sasha used 55% of her savings to buy a game. She has $135 **remaining**. How much was her savings before buying the game? Answer $ _____ **(3 marks)**		26.		

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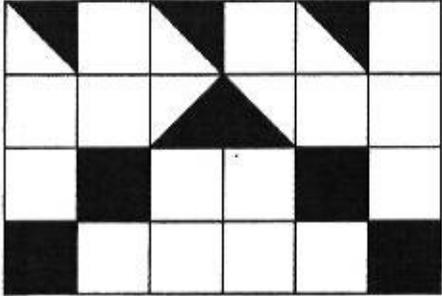| No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
27.	Brian and his father went fishing on the weekend (Saturday and Sunday). They caught 120 fishes on Saturday. Their catch decreased by 25% on Sunday. (a) Calculate the number of fishes that they caught on Sunday? Answer _____ fishes **(2 marks)** (b) How many fishes did they catch ALTOGETHER on the weekend? Answer _____ fishes **(1 mark)**		27.		
28.	(a) Mummy cuts 8 pizzas into SIXTHS. Kori gets $\frac{1}{3}$ of ONE pizza. How many SIXTHS of pizza does he get? Answer _____ sixths **(1 mark)** (b) How many SIXTHS of pizza does mummy have remaining? Answer _____ sixths **(2 marks)**		28.		

DO NOT WRITE HERE	KC (5)		AT (10)		PS (5)		TOTAL (20)	

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
29.	The following diagram represents the floor space of the library (A) and the computer room (B) at Central Government School. The diagram consists of identical squares. A - Library B - Computer Room (a) What is the MOST suitable unit for measuring the area of the floor? Answer _____ (1 mark) (b) Each floor space has to be covered with carpet. Which room has the SMALLER floor space to be covered? Answer _____ (1 mark)					

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
29.	(c) Which room has the floor with the SMALLER perimeter? Answer _____ **(1 mark)**		29.		
30.	The following diagram shows a rectangular box with dimensions 6 cm × 9 cm × 18 cm and a small cube with sides of 3 cm. 6 cm 9 cm 18 cm 3 cm How many small cubes are needed to completely fill the rectangular box? Answer _____ cubes **(2 marks)**		30.		
31.	Calculate the area of the following shape. 10 cm 3 cm 5 cm 6 cm Answer _____ cm² **(2 marks)**		31.		
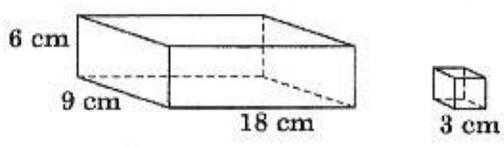
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
32.	Mrs Chin got a loan of $6000 from a credit union. She took 3 years to repay the loan at the simple interest rate of 5% per annum. Calculate the TOTAL amount of money that Mrs Chin repaid. Answer $ _____ (3 marks)		32.		
33.	In the following shape, ABCD, the sides AB and BC are both equal to 130 cm, and sides AD and CD are equal in length. The perimeter of the shape is 660 cm. Calculate the length of the side CD. Answer CD = _____ cm (2 marks)		33.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
34.	The side of each square on the following grid is 3 cm. Complete EACH of the following statements. (a) The area of ONE square on the grid is _____ cm^2 **(1 mark)** (b) The TOTAL shaded area on the grid is _____ cm^2 **(2 marks)**		34.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here

| | | | KC | AT | PS |

35. Mr Lewis needs to buy some materials. He receives the following cost statements from two hardware stores, A and B, respectively.

HARDWARE STORE A

Quantity	Material	Unit Cost	Price
4	Bags of cement	$30.00	$120.00
1	Load of sand	$700.00	$700.00
50	Bricks	$5.00	_____
		Total	_____

Transportation $80.00

HARDWARE STORE B

Quantity	Material	Unit Cost	Price
4	Bags of cement	$35.00	$140.00
1	Load of sand	$700.00	$700.00
50	Bricks	$6.50	$325.00
		Total	$1165.00

Transportation Free! Free! Free!

(a) Complete the bill statement for the materials from Hardware Store A.

(1 mark)

(b) The hardware store MUST transport the materials. Which hardware store offers Mr Lewis the better purchase?

Answer _____

(2 marks)

35.

DO NOT WRITE HERE | KC (4) | AT (10) | PS (4) | TOTAL (18)

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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
36.	In the following diagram, the dotted line AB is a line of symmetry for the incomplete shaded shape.				
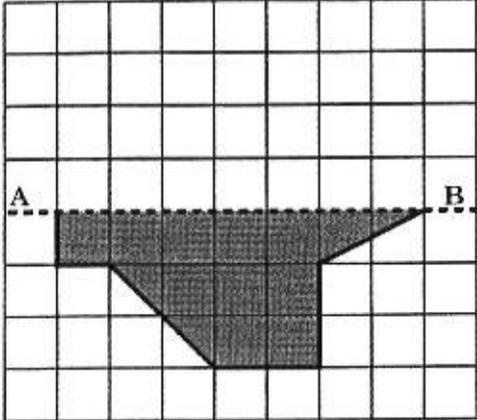
Complete the drawing of the shape.

(2 marks)

36.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here

KC | AT | PS

37. (a) The following diagram is incomplete.

Complete the diagram to represent the net of a triangular prism.

(1 mark)

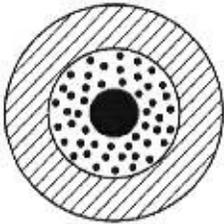(b) How many edges does a triangular prism have?

Answer _____ edges

(1 mark)

37.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
38.	Three triangles, P, Q and R are shown below. 12 cm \ / 12 cm P 10 cm 12 cm / 13 cm Q 5 cm 12 cm / 12 cm R 12 cm (a) Which of the triangles is equilateral? Answer _____ (1 mark) (b) Which of the triangles have AT LEAST ONE line of symmetry? Answer _____ (2 marks)					
			38.		
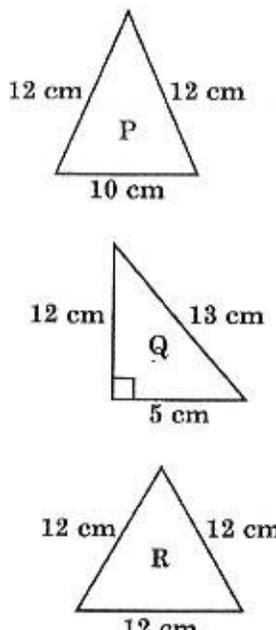
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here

KC | AT | PS

39. The following diagram shows a flat shaded shape, ABCD.
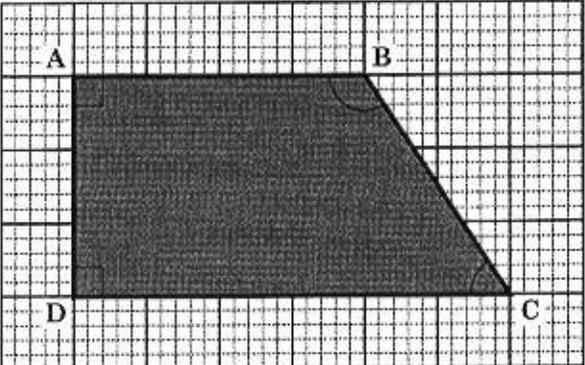
(a) Circle the word from the following list which BEST describes the angle at C.

    Acute   Right-angled

    Obtuse   Reflex

(1 mark)

(b) On the diagram of ABCD, tick (√) the TWO sides which are PARALLEL to each other.
(1 mark)

(c) On the diagram, draw ONE line to divide the shape ABCD into TWO triangles.
(1 mark)

39.

DO NOT WRITE HERE	KC (2)		AT (3)		PS (1)		TOTAL (6)	

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here

| | | | KC | AT | PS |

40. The following incomplete table shows the number of Standard 4 pupils in a school who qualified for the Mental Mathematics Competition.

Mathematics Competition

Standard 4	Number of Pupils who Qualified
4J	17
4K	
4L	18
4M	17
4N	21

The mean number of pupils who qualified from Standard 4 is 19. How many pupils qualified from Standard 4K?

Answer _____ pupils
(2 marks)

40.

| DO NOT WRITE HERE | KC (1) | | AT (1) | | PS (0) | | TOTAL (2) | |

SECTION III

Each question is worth 5 marks. Answer ALL questions.
Show ALL working in the Working Column.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
41.	Suri and Mali played a game of darts. Each made six strikes. The following diagram shows the number of points earned for striking the patterns on the dart board. Stripes = 10 points Dots = 20 points Black = 30 points (a) Suri made two strikes on stripes, three on dots and one on black. What is her TOTAL score? Answer _____ points (2 marks)				

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here

			KC	AT	PS

(b) Mali scored 150 points by striking each pattern AT LEAST ONCE. Complete the following score sheet to show how she scored 150 points.

Pattern	Number of Strikes	Score
Stripes	_____	_____
Dots	1	20
Black	_____	_____
Total	6	150

(2 marks)

(c) What is the LOWEST score possible if in the six strikes, a player hits EACH pattern at LEAST ONCE?

Answer _____ points

(1 mark)

41.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
			KC | AT | PS
42.	Use the numbers given in the box below to complete the statements which follow.		

6   36

11 21

49 24

(a) The SQUARE numbers in the box are

_____ .

(2 marks)

(b) The SQUARE ROOT of 121 is

_____ .

(1 mark)

(c) The TWO numbers which have a product that is equal to the SQUARE of 12 are

_____ and _____ .

(2 marks)

42.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here

			KC	AT	PS

43. Akil saved $50 at the end of each week to buy the pair of roller skates shown below.

$ 500

ROLLER SKATES

(a) How many weeks did it take him to save $500?

Answer _____ weeks

(1 mark)

(b) He paid in cash and received a discount. After discount, he paid $400. What was the percentage discount he received?

Answer _____ %

(2 marks)

(c) Akil paid the cashier the EXACT $400 which included ONE or more of EACH bill.

Complete the table below to find the LEAST number of bills that Akil gave the cashier.

Bill	$100	$50	$20	$10	$5	$1
Number of Bills						5

Answer _____ bills

(2 marks)

43.

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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here

			KC	AT	PS

44. The following diagram shows the number of long mats (L) and short mats (S) arranged around a rectangular playing field.
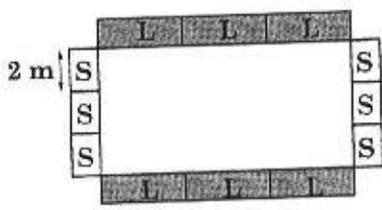
The length and width, in metres, of each type of rectangular mat are shown below.

Long mat, L
0.5 m
4 m
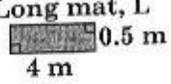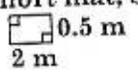
Short mat, S
0.5 m
2 m

Calculate:

(a) The length of the playing field

Answer _____ m
(1 mark)

(b) The width of the playing field

Answer _____ m
(1 mark)

(c) The area of a short mat

Answer _____ m²
(1 mark)

(d) The number of short mats that would be needed to cover the area of the playing field COMPLETELY

Answer _____ short mats
(2 marks)

44.

DO NOT WRITE HERE   KC (3)   AT (5)   PS (2)   TOTAL (10)

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here

			KC	AT	PS

45. The following diagram shows a triangle, *PQR*, and the position of its image after a movement.
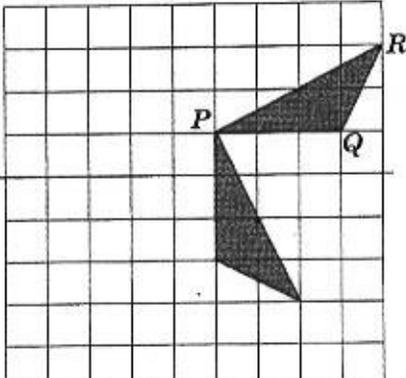
(a) Circle the word from the following list which BEST describes triangle *PQR*.

Right-angled   Isosceles

Scalene   Equilateral

(1 mark)

(b) Identify the type of movement.

Answer_____

(1 mark)

(c) Describe the movement FULLY.

Answer _____

_____

_____

(2 marks)

(d) Label the image of Point *Q* as *Q'* .

(1 mark)

45.

DO NOT WRITE HERE | KC (1) | AT (2) | PS (2) | TOTAL (5)

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS

46. The following table shows the number of chairs rented and returned to Zippy Party Rentals for the period Monday to Friday of a week in May.

Chair Rentals

	Mon	Tue	Wed	Thur	Fri
Number of Chairs rented	113	367	258	969	1083
Number of Chairs returned	46		96		62

(a) On which day was the rental of chairs CLOSEST to 1000?

Answer _____

(1 mark)

(b) The number of chairs returned for the week was 306. Calculate the number of chairs returned on Thursday if twice as many were returned on Tuesday as returned on Thursday.

Answer _____ chairs

(2 marks)

(c) What is the mean number of chairs rented over that period in May?

Answer _____ chairs

(2 marks)

46.

DO NOT WRITE HERE   KC (1) ___   AT (2) ___   PS (2) ___   TOTAL (5)

END OF TEST

IF YOU FINISH BEFORE TIME IS CALLED, CHECK YOUR WORK ON THIS TEST