YEAR 2004

PUPIL'S COMPLETE INDEX NUMBER

Province/City	District	Sector	School	Pupil

PUPIL'S FULL NAME

SUR NAME: _____
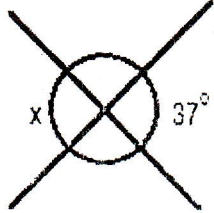
OTHER NAMES: _____

REVISION OF EXTRACTED QUESTIONS FROM
PRIMARY LEAVING EXAMINATION 2004
MATHEMATICS

Duration: 2 hours

SECTION A (65 MARKS)

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1 Write the number 1994 in words   (2 marks)

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2 What is the value of x in the figure below? (2 marks)

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3 What is the place value of 3 in the number 40301? (2 marks)

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4 Round off 2567 to the nearest hundreds. (2 marks)

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5 Draw all lines of symmetry for the rectangle below   (2 marks)

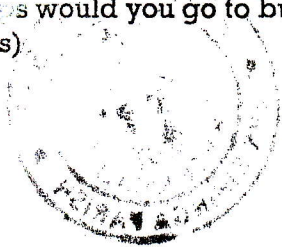**6** Write 90 in Roman numerals. (2 marks)

7	The density of a solid is 0.765g/cm³ and it's volume is 2000cm³. Calculate the mass of the solid (2 marks)	8	A number divided by $\frac{1}{5}$ is 50. Find the number. (2 marks)
9	Which of the following numbers is exactly divisible by 3? 172, 259 and 501 (2 marks)	10	What is the sum of prime numbers between 0 and 10? (2 marks)
11	How many cups of tea each measuring 250cm³ can be obtained from 2.5 litres of tea? (2 marks)	12	Calculate 8400 x 0.75 (2 marks)
13	How many litres of water are obtained if 2000 litres of water are increased by 20%? (2 marks)	14	Fill in the missing numbers in the table below.(2 marks)
15	Express $\frac{4}{25}$ as a decimal number (2 marks)	16	Find the value of x given: $3x + 5 = x + 9$ (2 marks)

Table for question 14:

9	____	11	20
80	99	120	____

17	On a map, a line of 4cm represents 2 km on land. Find the area of a square land whose sides are each 10cm long on a map. (2 marks)	18	Arrange the following fractions in ascending order $\frac{31}{84}, \frac{2}{7}, \frac{8}{21}$ (2 marks)
19	Given that m = 4, n = ‾2 and y = 5, calculate the value of my − 4n (2 marks)	20	Find the simple interest on 40 000frw for 4 years at 11% interest rate per year. (2 marks)
21	Calculate $\frac{2}{5}$ of 105 000cm² and express your answer in square metres. (2 marks)	22	The area of a square is 81cm². Calculate the perimeter of the square (2 marks)
23	Find the sum of interior angles of a regular polygon which has 6 sides. (2 marks)	24	Find the LCM of 39 and 52 (2 marks)

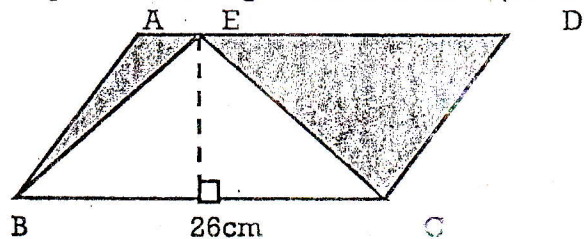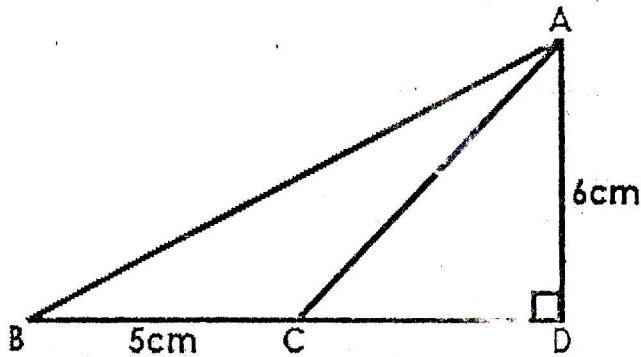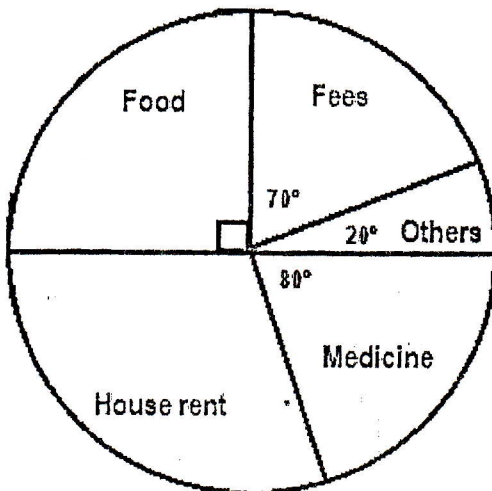|	
25 Simplify completely: $1\frac{5}{6} \div (\frac{2}{3} + \frac{1}{4})$ (2 marks)	**26** The average age of 15 students is 16 years and the average age of 5 other students is 6 years. Calculate the average age of the whole group. (3 marks)
27 In shop A, a dozen of pencils costs 600frw while in shop B a packet of 20 dozens of the same pencils costs 10800frw. Which of the two shops would you go to buy a pencil? (3 marks)	**28** One hundred Rwanda francs banknotes are paid to the Headmaster are numbered from AA7591510 to AA7592000. How much money is this? (3 marks)
29 Musa bought 3000kg of beans at 300 000frw. He sold all the beans at 115frw per kg. Calculate his percentage profit. (3 marks)	**30** In the figure below, ABCD is a parallelogram. Calculate the area of the shaded part if the height of the triangle BCE is 12cm. (3 marks)

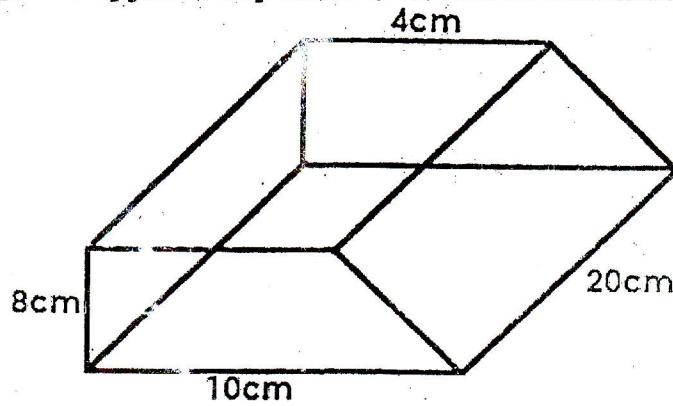| 31	In the figure below, the area of triangle ABD is 24cm. Find the ratio of the area of triangle ACD to the area of triangle ABC. (7 marks)

32	A sum of 100 000frw is banked at a compound interest rate of 10% per year for 4 years. Calculate the total amount of money in the bank after 4 years. (7 marks)

33	A man earns 90 000frw per month. The Pie chart below shows how the money is spent. Calculate how much money is spent on each item. (7 marks)

34	10 men complete some work in 20 days. All men work at the same rate. (a). How many men complete the same work in 5 days? (2 marks) (b). How long does it take 8 men to complete the same work? (2 marks) (c). If the cost of the completed work is a fixed amount of 200 000Frw, how much money does each man take home each day if he uses 200Frw every day? (3 marks)

35 Below is a prism with a pair of opposite trapezium cross section area ends.

4cm

20cm

8cm

10cm

(a). Calculate it's volume.
(3 marks)

(b). Calculate the total surface area of the prism.
(4 marks)

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36 Below are the results from the voting of constitution in a certain country

Number of people registered for voting = 000 000
Number of people who voted YES   = 3 332 000
Number of people who voted NO   =   392 000
Number of spoilt votes   = x
Percentage of people who were absent = 2%

(a). How many people were absent? (1 mark)

(b). How many people voted altogether? (2 marks)

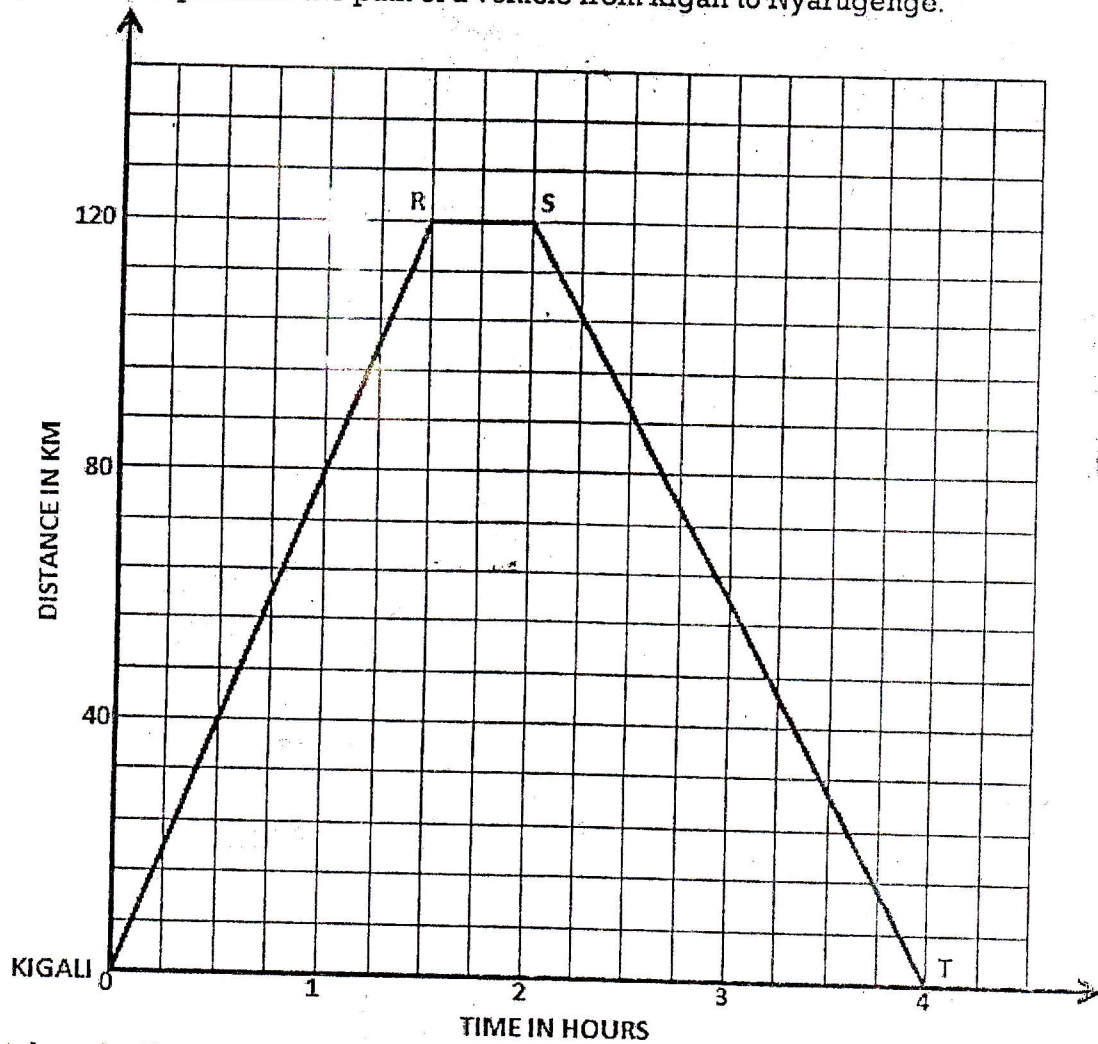(c). How many votes were spoilt? (1 mark)

(d). Express;
(i). YES votes as a percentage of all people who voted. (1 mark)

(ii). NO votes as a percentage of all people who voted. (1 mark)

(iii). Spoilt votes as a percentage of all the people who voted. (1 mark)

37 The graph below represents the path of a vehicle from Kigali to Nyarugenge.

(a). What does the little square on the x-axis represent? (1 mark)

(b). What does the little square on the y-axis represent? (1 mark)

(c). How far from the starting point does the vehicle arrive at point R? (1 mark)

(d). For how long does the vehicle stop on the road? (1 mark)

(e). What distance has the vehicle covered by the time it reached back to Kigali at point T?(1 mark)

(f). If Nyarugenge was located 180km from Kigali, did the vehicle reach there? (1 mark)

(g). For how many hours was the car moving? (1 mark)