YEAR 2012

PUPIL'S COMPLETE INDEX NUMBER

Province/City	District	Sector	School	Pupil

PUPIL'S FULL NAME

SUR NAME: _____

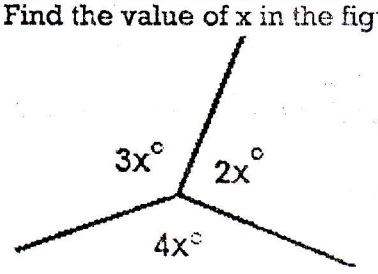
OTHER NAMES: _____

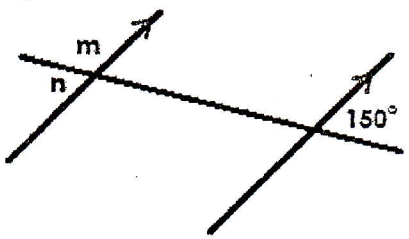
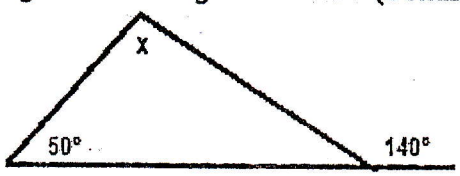
REVISION OF EXTRACTED QUESTIONS FROM PRIMARY LEAVING EXAMINATION 2012

MATHEMATICS

Duration: 2 hours

1	Find the next two numbers in the following sequence: (2 marks) 4, 7, 10, _____, _____	2	Calculate: $340 \times 4 \div 170 \times 4$. (2 marks)
3	Find the area of a square whose perimeter is 20cm. (2 marks)	4	Simplify: $\frac{1}{3} + \frac{1}{4} + \frac{5}{12}$ (2 marks)
5	Share 7000frw between two students in the ratio of 2:5. (2 marks)	6	Express 140 as a product of it's prime factors. (2 marks)

7	Arrange the following in ascending order: (2 marks) $\frac{2}{5}, \frac{1}{3}, \frac{3}{7}$	8	Calculate the area of a parallelogram whose length is 10cm, height is 4cm and width is 6cm. (2 marks)
9	The price of petrol was increased by 2% per litre. Find the new price of 1 litre of petrol if the old price was 990frw. (2 marks)	10	Solve the equation: $2x + 4 = 8 - 2x$ (2 marks)
11	The perimeter of a rectangle is 36cm.Find it's area if it's width is 6cm. (2 marks)	12	Add and give the answer in base two: (2 marks) $1011_{two} + 5_{ten}$
13	Set A = {2, 3, 5, 7, 11} and set B = {10, 5, 2, 4}. (a). Find A∪B (1 mark) (b). Find A∩B (1 mark)	14	Find the value of x in the figure below.(2 marks) 

15	Find the area of a semi circle whose diameter is 0.14dm. $(\pi = \frac{22}{7})$ (2 marks)	16	Taxi starts from Kigali at 8 : 05am and travels at an average speed of 60km/hr until 9 : 00am. What distance has the taxi travelled? (2 marks)
17	In the figure below, find angles m and n. (2 marks) 	18	Write a pair of; (a). Complementary angles. (1 mark) (b). Supplementary angles. (1 mark)
19	There is enough food for 3 people for 12 days. How many days would this food last if there were 9 people? (2 marks)	20	The base of a right angled triangle is 8cm and the hypotenuse is 10cm. Find the height of the triangle. (2 marks)
21	Find angle x in the figure below. (2 marks) 	22	Draw an angle of 60° at point A on the line below. Use a ruler, a pair of compasses and a pencil only.(2 marks) A

23	A shirt was sold at 20% loss for 8000frw.What was the cost price? (2 marks)	24	How many lines of symmetry does; (a). A rhombus have? (1 mark) (b). an isosceles triangle have? (1 mark)
25	The cost of a book is 5000frw. How many books can be bought with 24 000frw? **(2 marks)**	26	Given that $x = -2$ and $y = 3$, find the value of $2x^2 + xy - x$ (3 marks)
27	The perimeter of the base of a cylinder is 31.4cm. Find the volume of the cylinder if the height is 10cm. ($\pi = 3.14$)(3 marks)	28	An interior angle of a regular polygon is 150°. How many sides does the polygon have? (3 marks)
29	A man spent $\frac{1}{8}$ of his salary on fees and $\frac{2}{5}$ of the salary on a car loan. He remains with 380 000frw. What is the man's salary? (3 marks)	30	A Pie chart represents goats, cows and pigs on a farm. The angle representing pigs on the Pie chart is 45°. There are 40 pigs and 120 cows on the farm. How many goats are there on the farm? (3 marks)

31 Kigali is 50km from Rwamagana. A car leaves Kigali for Rwamagana at 7:30am and travels at an average speed of 45km/hr. At the same time, a taxi leaves Rwamagana for Kigali and travels at an average speed of 30km/hr.

(a). Find the distance from Kigali where the two vehicles meet. (5 marks)

(b). At what time do the two vehicles meet? (2 marks)

32 32. Use quick method to calculate:

(a). 642×50 (2 marks)

(b). 2224×49 (2 marks)

(c). 16999×99 (2 marks)

(d). 4444×25 (1 mark)

33 The table below shows the results of football matches played by a school football team.

Number of goals scored	0	1	2	3	4
Number of matches played	3	2	2	3	0

Complete the frequency table below and calculate the mean number of goals per match. (7 marks)

Number of goals (x)	Frequency (f)	fx
0		
1		
2		
3		
4		
Total		

Mean goals per match =

34 90 000frw is kept at 10% p.a compound interest. Find the amount kept after 3 years. (7 marks)

35 The information shows two types of beans and their costs per kilogram.

Type	Quantity	Cost per kg
A	300 kg	300 frw
B	X kg	400 frw

What is the value of **X** which would make the cost of one kilogram of the mixture 340 frw? (7 marks)

"END"