

# YEAR 2010

## PUPIL'S COMPLETE INDEX NUMBER

Province/City

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District

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Sector

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School

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Pupil

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## PUPIL'S FULL NAME

SUR NAME: \_\_\_\_\_

OTHER NAMES: \_\_\_\_\_

## REVISION OF EXTRACTED QUESTIONS FROM PRIMARY LEAVING EXAMINATION 2010 MATHEMATICS

Duration: 2 hours

### SECTION A (65 MARKS)

1	Calculate: $55 \times 112 - 12 \times 55$ (2 marks)	2	What is the place value of 4 in 85421? (2 marks)
3	Arrange the following numbers from the smallest to the largest: 0, -1, -8, 11, 17 (2 marks)	4	Calculate $0.031 \times 1.1$ giving the answer corrected to 2 decimal places (2 marks)
5	Complete: 0.4 litres = _____ $\text{cm}^3$ (2 marks)	6	Write the next two missing numbers in the sequence: (2 marks)  2, 8, 14, _____, _____

7 A car uses 4 litres of petrol to travel 60km.  
How many km will it travel if it uses 16 litres?  
(2 marks)

8 Find the Lowest Common Multiple of 15, 24  
and 40. (2 marks)

9 Express 48 in terms of it's prime numbers.  
(2 marks)

10 Solve the equation:  $4(x + 1) = 2x + 7$  (2 marks)

11 Increase 240kg by 9% (2 marks)

12 Find the perimeter of a square whose area is  
 $625 \text{ cm}^2$ . (2 marks)

13 Complete the table below: (2 marks)

4	6	7	_____
9	13	_____	25

14 In a sale, goods are sold for  $\frac{3}{4}$  of the usual  
price. What is the sale price for a pair of  
shorts whose usual price is 2000 frw. (2 marks)

15 Simplify:  $4x^4y^3 \times 2x^2y^2$  (2 marks)

16 To make one cake you use 1.25kg of flour.  
How many kg of flour will be used to make 6  
cakes? (2 marks)

17	Find the circumference of a circle with the diameter of 30cm and $\pi = 3.14$ . (2 marks)	18	Decrease 150m in the ratio 3:25. (2 marks)
19	Ten men can dig a garden in 4 days. How many days would it take eight men to dig the same garden?(2 marks)	20	The angles of a triangle are $80^\circ$ , $30^\circ$ and $x^\circ$ . Find the value of $x^\circ$ . (2 marks)
21	1,200,000frw is banked at 8% per year simple interest. Find the interest after 3 years. (2 marks)	22	Write 45 in Roman numerals. (2 marks)
23	Calculate the area of the rectangle below: (2 marks) <div data-bbox="303 1733 646 1926" data-label="Diagram"> <p>A rectangle is shown with its left vertical side labeled '6cm' and its bottom horizontal side labeled '13cm'.</p> </div>	24	Workout: $45\text{kg} + 65\text{g} + 1000\text{mg} = \underline{\hspace{2cm}}\text{g}$ (2 marks)

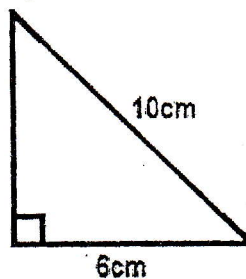


25	The base area of a cube is $64\text{cm}^2$ . Calculate the volume of that cube. (2 marks)	26	If the cost price of a goat is 5000frw and the selling price of the same goat is 6000frw. What is the percentage profit? (3 marks)
27	If the average of 12, $x$ and 8 is 9. What is the value of $x$ ? (3 marks)	28	If a car travels 45km in 50 minutes. How many km does it travel in 2 hours? (3 marks)
29	29. Simplify: $(\sqrt{64} - \sqrt{25}) \div \sqrt{9}$ (3 marks)	30	The following are the ages of 10 pupils: 11, 12, 12, 13, 11, 14, 15, 11, 12, 11 (a). Find the mode age (1 mark)  (b). Find the average age (2 marks)

**SECTION B (Choose any 5 questions-35 marks)**

- 31 A trader banks 1,000,000frw at a compound interest of 6% per year. Find the amount of money after 3 years. (7 marks)

- 32 The figure below is of a right angled triangle. Find it's area. (7 marks)



- 33 The base of a triangular prism is a right angled triangle. The base of the triangle is 4cm and height is 3cm.

(a). Find the height of the prism if it's volume is  $48\text{cm}^3$ . (3 marks)

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

34 (a). If 20kg of beans mixed with maize contains 8kg of beans. How many kg of maize will be found in 35kg of maize mixed with beans? (4 marks)

(b). 50 children have enough food for 18 days. How long would this food last if the number of pupils was 30? (3 marks)

35 (a). Solve:  $\frac{2(2x - 1)}{3} = \frac{3(x + 3)}{2}$  (4 marks)

(b). If  $m = 2$ ,  $n = 3$  and  $p = 5$ , find the value of:  $2m^2 - 3n + 2p$  (3 marks)

36 (a). Using a ruler and a pair of compasses only, draw a triangle ABC in which line AB = 6.2cm, line BC = 5.0cm and angle ABC =  $60^\circ$ . (5 marks)

(b). Measure using a protractor;

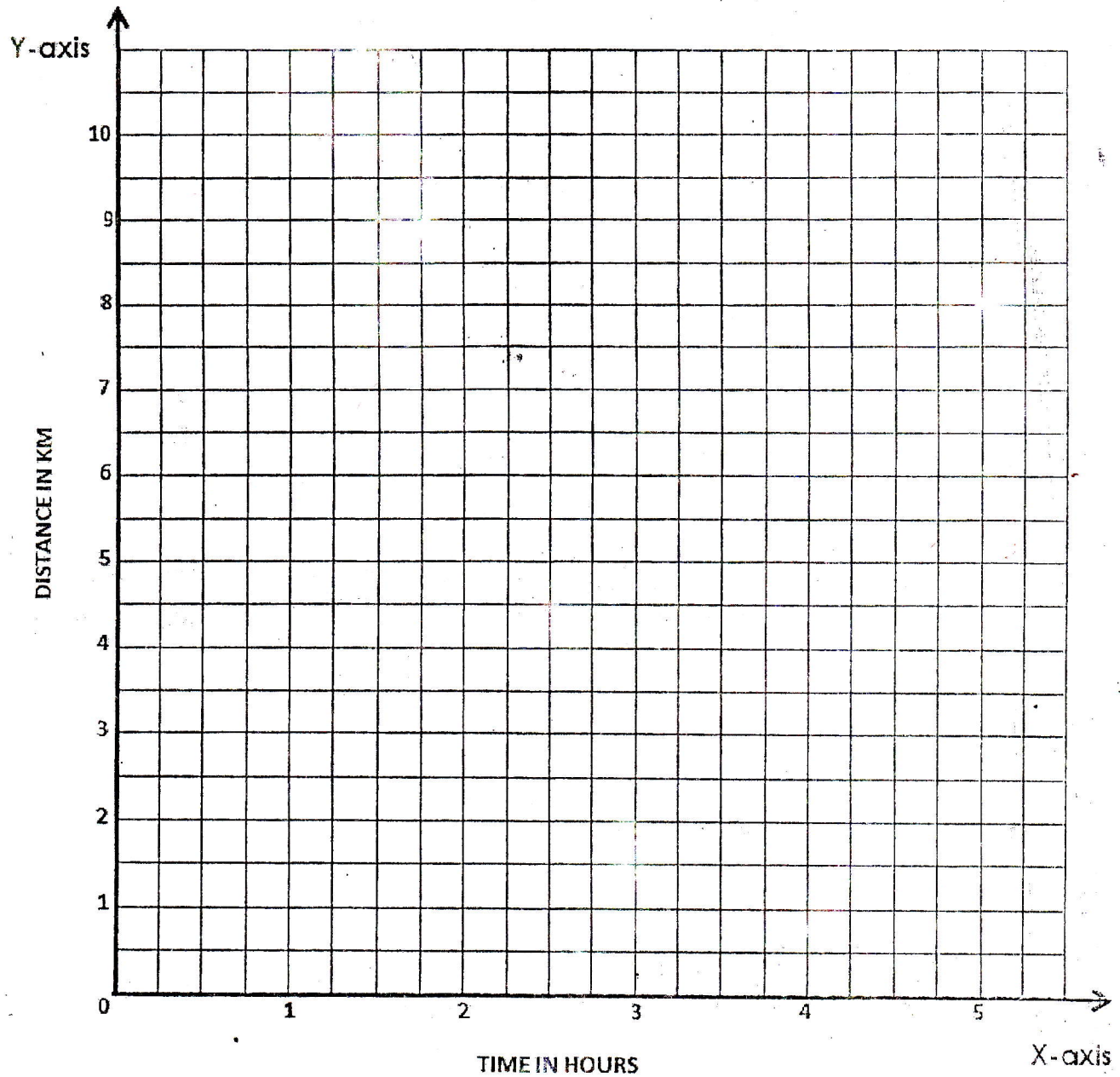
(i). Angle BCA and angle BAC (1 mark)

(ii). Length AC (1 mark)



37 Use the table below and plot a graph of  $y$  against  $x$ . (7 marks)

$x$	1	2	3	4	5
$y$	2	4	6	8	10



"END"