# YEAR 2000

**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 2000

## MATHEMATICS

**Duration: 2 hours**

**SECTION A (65 MARKS)**

1 Workout: $5\frac{3}{4} \div 1\frac{2}{3}$ (2 marks)

2 On a map, 5dm represents 2km. Calculate the scale of the map.
(2 marks)

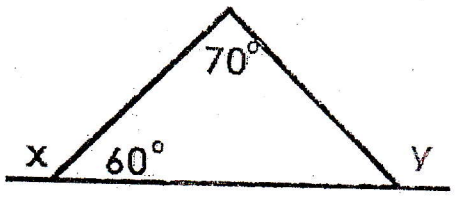
3 Solve: $\frac{2x}{3} - \frac{3x}{4} = 1$ (2 marks)

4 If a = 2 and b = $^{-}4$, find the value of:
$b^2 + 4b + a$ (2 marks)

5 The volume of a cube is 125cm³. Calculate it's total surface area. (2 marks)

6 Complete the table below (2 marks)

| | | | | |
|---|---|---|---|---|
| 5 | 3 | 6 | 8 | |
| 26 | 10 | | 65 | 17 |

| | | | |
|---|---|---|---|
| 7 | A car covers a distance of 140km in 105 minutes. Express it's speed in km/hr. (2 marks) | 8 | Find the value of angles marked with letter. (2 marks)<br>  |
| 9 | James, Robert and Amos shared some money in the ratio of 4:3:9 respectively. If Amos got 3000frw more than Robert, how much did Amos get? (2 marks) | 10 | After selling a pair of shoes, a trader made a profit of 20% worth 800frw. Calculate the selling price of the shoes. (2 marks) |
| 11 | If m = 10, n = 2 and p = 3, find the value of; mp + 5n - 4p (2 marks) | 12 | The length of a rectangle is 3 times it's width. If it's area is 48cm². Find it's perimeter (2 marks) |
| 13 | Simplify: (2 marks)<br>$\left(\frac{1}{4}m^3+\frac{3}{4}st+\frac{12}{60}st+12m^3\right)\div\frac{1}{5}=\_\_st$ | 14 | The percentage of girls in P.6 class is 20% more than that of boys. If there are 32 boys in the class, how many girls are there? (2 marks) |
| 15 | Increase 100kg by 10% and then decrease the result by 10%. What is the new quantity? (2 marks) | 16 | Convert:195425sec = _ days_ hrs__mins__secs (2 marks) |

| | | | |
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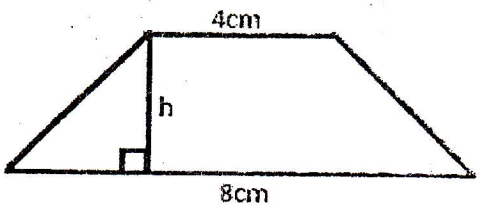
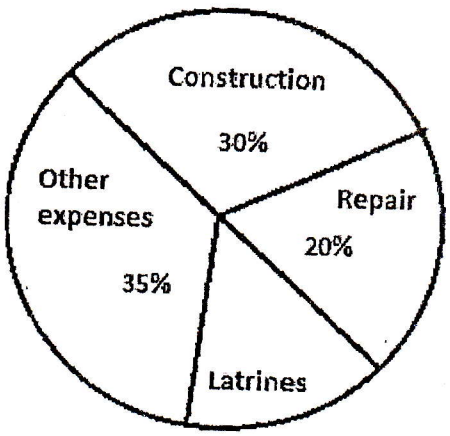
| 17 | The sum of three consecutive even numbers is 78. Find the numbers. (2 marks) | 18 | Find the size of h if the area of the trapezium is $84cm^2$. (2 marks)<br>  |
| 19 | Instead of multiplying 3527 by 305, a pupil forgot the zero. What difference did it cause in the answer? (2 marks) | 20 | A circular swimming pool of radius 2.7m is surrounded by a path 2.1m wide. Find the area of the path. (2 marks) |
| 21 | The radius of a cone is 13cm and the height is 18cm. Calculate it's volume. (2 marks) | 22 | A certain amount of money banked at a rate of 5% p.a for 3 years became 21275frw. Calculate the capital. (2 marks) |
| 23 | Travelling at a speed of 4.5km/hr, a man took 27 minutes to move around a square garden. Find the length of the side of that square garden. (2 marks) | 24 | 15 000frw was banked at a rate of 4% p.a and 25 000frw was banked at a rate of 4.8% p.a. Find the average interest after 1 year. (2 marks) |

| | | | |
|---|---|---|---|
| 25 | A drum has a diameter of 5dm and can be filled by 3.825hl of water. Find it's height. (2 marks) | 26 | Two paths were made through the middle of a rectangular garden with the length of 150m, one running horizontally and the other vertically. The width of each path was 2.50m. If the remaining cultivable area was 9956.25m$^2$. Calculate the total area of the two paths. (3 marks) |
| 27 | A boat travelling at 45km/hr left a port at 7:00am. At 7:20am, another boat left the same port and overtook the first one at 10:20am. Find the average speed of the second boat. (3 marks) | 28 | The sum of the parallel sides of a trapezium is 490metres. The short parallel side is $\frac{2}{5}$ of the long parallel side and it's height is 120m. . Find the area of the trapezium.(3 marks) |
| 29 | The circumference of a cylindrical water tank is 18.84m. When it is $\frac{4}{9}$ full of water, it holds 376.8hl. Find the depth of the tank. (3 marks) | 30 | Karara sold 36 goats and 18 sheep for 162000frw. Another time she sold 42 goats and 36 sheep for 219000frw. Find the price of 1 goat and 1 sheep. (3 marks) |

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

31 The Pie chart below shows how a school spent money. It spent 60 000frw on latrines.




(a). Calculate the total amount spent. (3 marks)

(b). Calculate the money spent on each item. (4 marks)

32 A sum of 4 000 000Frw is banked at a compound interest rate of 2% per year for 4 years.

(a). Calculate the compound interest. (5 marks)

(b). How much money will it amount to? (2 marks)

33 The interior angle of a regular polygon is 36° more than the exterior angle. Calculate;

(a). The size of an exterior angle (2 marks)

(b). The size of each interior angle. (2 marks)

(c). The sum of interior angles of a polygon. (2 marks)

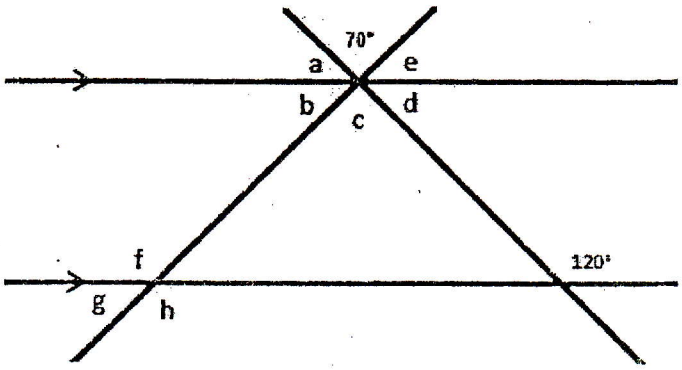
(d). Name the polygon. (1 mark)

34 The distance between two towns A and B is 148km. Peter started his journey from town A at 8:40am at 14km/hr towards town B. At 10:40am, Kevin started his journey From town B to town A at 16km/hr.

(a). At what time did they meet? (4 marks)

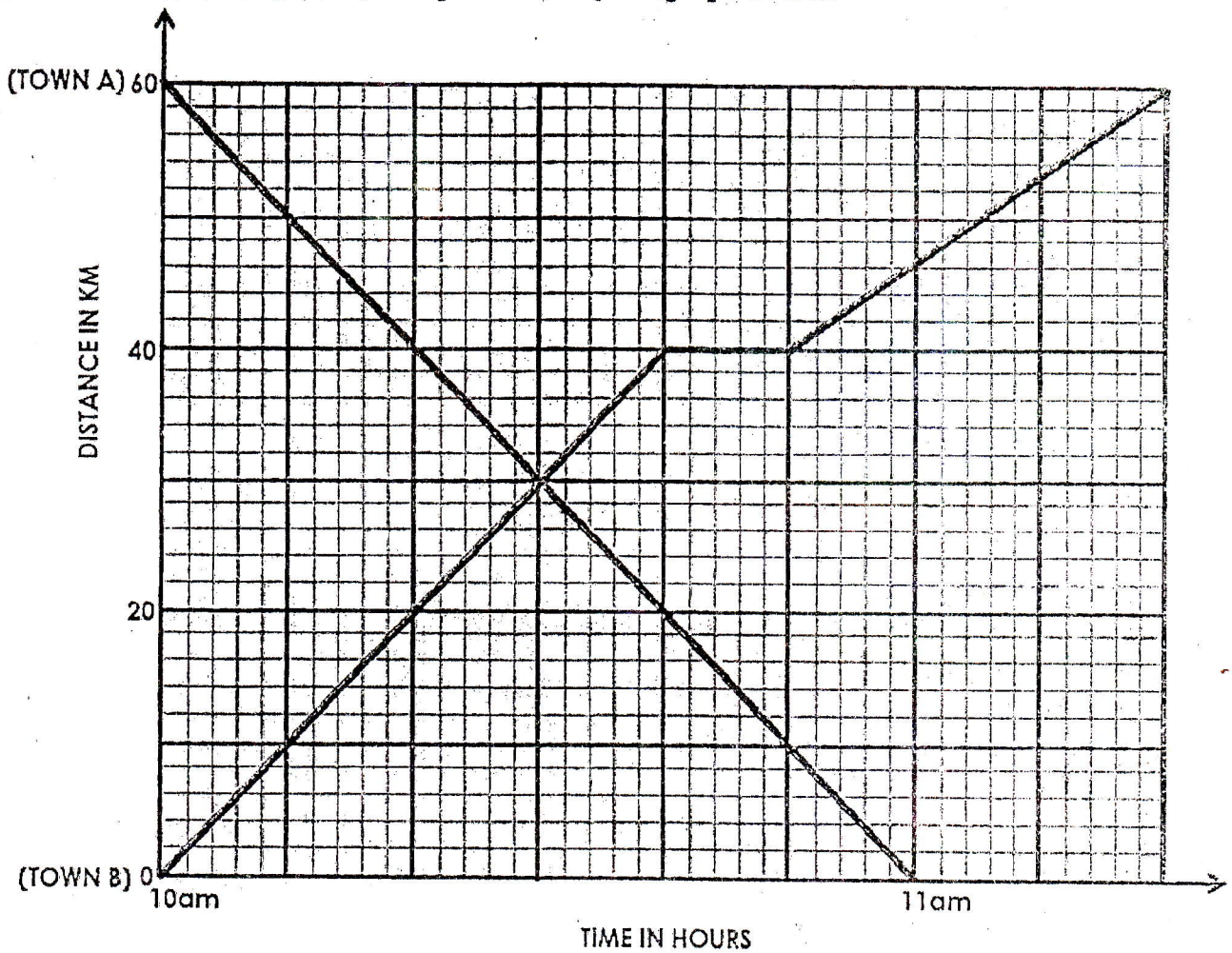
(b). What distance did each cover before meeting? (3 marks)

35 Find the values of angles marked with letters. (7 marks)




36 40 men working 4 hours a day can dig 160m² in 16 days. How long will it take 32 men working 5hours a day to dig 80m²? (7 marks)

37 Town A is 60km away from town B. A taxi left town A for town B and at the same time, a lorry left town B for town A. The journey is represented by the graph below.




(a). At what time did the taxi meet the lorry? (1 mark)

(b). For how long did the lorry stop on the way? (1 mark)

(c). What was the average speed of the taxi? (2 marks)

(d). At what time did the lorry reach town A? (1 mark)

(e). Find the average speed of the lorry for the whole journey. (2 marks)