## **GOLDEN BERRY SCHOOL**

## P.7 MATHEMATICS SET 2(A) TERM I, 2020.

Name: Stream: **SECTION A (40 MARKS)** 1. Multiply: 42 5. Using a pair of compasses, a ruler and a sharp pencil only, x 4 construct an angle of 671/2° 2. Write 46 in Roman numerals. 3. Given that a=1 and b=3. Find the value of a<sup>2</sup> 2b 6. Simplify: <u>3.2 x 2</u> 0.16 Study the grid below and answer the question 4 Y – axis 7. Workout-3 + +5 using a number +1line below. X – axis 0 +24. Write the coordinates of point D -4 -3 -2 -1 0 1 2 3 4 5 67

8. Mr. Male withdrew a bundle of ten thousand shilling notes from an automated teller machine (ATM) numbered consecutively from AB 436911 to AB 436935. How much money did he withdraw?

- 9. Find the next number in the sequence.
  - 1, 9, 25, 49, \_\_\_\_\_
- Given that three pencils cost sh. 1800, how many pencils will Hassan buy with Sh. 3600?

11. Change 18Km/hr to m/sec.

12. The figure ABCD below is a rhombus of side 5cm.



13. Electric poles planted 50 meters apart. Alice moved from the 4<sup>th</sup> pole to the 9<sup>th</sup> pole. Find the total distance she moved.

14. Today is Monday, what day of the week will it be 17 days from today? 15. Solve the inequality:- 3x+5<2

 Find the perimeter of the semi – circle below.



17. Use the Venn diagram below to find the value of Y.



18. In a class, the ratio of boys to girls is 3:7 respectively. If a prefect is chosen at random from the class, what is the probability that the prefect will be a boy?

19. A businessman deposited sh.
1,200,000 in a bank which gives a simple interest rate of 3% per year.
Find his interest after 1 ½ years.

20. In the figure below, find the bearing of town A from town B.





b) Find the median age of the 4 boys. (2marks)

24. A water tank is  $\frac{2}{3}$  full. When 3000 litres are drawn from the tank, it becomes  $\frac{1}{4}$  full. How many litres can it hold when  $\frac{5}{6}$  full? (5 marks)

25. In the figure below ABC is an Isosceles triangle with line AB=BC. Study the figure and answer questions about it.



a) Find the size of angle ABC. (2marks)

b) Find the size of angle CAD. (1mark)

c) Find the size of angle ADB. (2marks) 26. a) Solve: 3(2p-1) -4 (p+3)=1 (2 marks)

> c) Ms. Sabano is 18 years' older than her daughter Jane. In ten years' time she will be twice as old as the daughter. How old is Ms. Sabano and Jane now? (3 marks)

27. The table below shows Mr. Mwanie's shopping list.

ITEM	PRICE	AMOUNT
3kg of	Sh. 4000 per	sh
sugar	kg	
1 <sup>1</sup> / <sub>2</sub> kg of	shper	Sh. 7500
ghee	kg	
litres	Sh. 1000per	Sh
of milk	litre	
TOTAL EXPENDITURE		Sh. 22,000

a) Complete the shopping bill. (4mks)

- b) If he paid sh. 18000 for all items, what discount was he offered? (1mark)
- 28. Using a ruler, a pencil and a pair of compasses, Construct a triangle PQR such that line PQ=7cm, Angle PQR=105° and angle QPR=30°. (4marks)

b) Measure line QR. (1mark)

29. The table below shows how				
Mr. Ochieng divided books				
among his three children				

Names of the children	Joel	Jack	James
No. of books	16	8	24

Using a radius of 3cm show the above information on an accurate pie chart.

(5 marks)

30. A trade bought a piece of land in Nansana Municipality measuring 150m by 120m. He is to divide the land into rectangular plots measuring 45m along the width and 15m along the length as shown in the figure below.



## a) How many plots can he get from the land? (2marks)

b) If the remaining piece of land is for the road, find the area of the road. (3marks) 31. Find the total surface area of the triangular prism below by adding area of each face.(5 faces)



(6 marks)

32. Kasirye set off from home to town for shopping at 8:00 a.m and travelled a distance of 36km at an average speed of 18km/hr. He spent 30 minutes shopping and he straight away returned home at an average speed of 24km/hr. At what time did he get back home? (4 marks)

## $\mathcal{END}$