

MID TERM III EXAMINATIONS 2019

S.1 MATHEMATICS

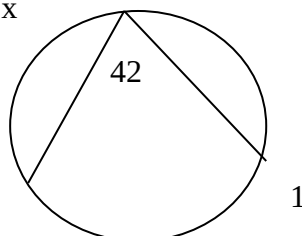
TIME: 2 HOURS

INSTRUCTIONS

- Attempt all questions from both sections A and B.

SECTION A

- Find the next number in the sequence (4 marks)
32, 16, 8, 4, 2, -----
1, 4, 9, 16,,
- Find the gradient of the line passing through (4,-12) and (3, -9)
(4mks)
- Given that $\text{£}1 = \text{ugsh } 3250$. Find the amount of £ (pound sterling) that can be exchanged for Ugsh 636350 (4mks)
- Solve for value of x
(a) $\frac{x}{2} + 7 = 13$
(4mks)
(b) $\frac{(x-2)}{2} + \frac{(3-x)}{4} = 8$ (4 marks)
- A S.1 class consists of brothers and sisters. Wanda is a brother to Tusiime, Tusiime is a sister to Tumuhairwe, Tumuhairwe is a brother to Evelyn. Draw a papygram to represent a relation
 - A relation sister to (4mks)
 - A relation brother to (4mks)
- In S.1 class at African child second school. There are 50 students. 35 of them play netball and 20 play both netball and football and 15 play neither football nor netball. (5 marks)
 - Represent the above information on the venn diagram
 - How many students play only football?
- Find the value of x





(4mks)

8. Using a pair of compasses and a ruler only,
- a) Construct triangle PQR such that $QR=10.6\text{cm}$ and angle $PRQ=75^\circ$ and $PQR=60^\circ$
 - b) Construct a circumcircle of triangle PQR with o as it's centre
 - c) Measure length PQ and PR and the radius of the circle
 - d) Find the area of the circle and the area of triangle PQR (12mks)
9. Gerald is five years younger than James and Hezekiah is twice as old as Gerald. The sum of their ages is 49. Find Gerald's age
(6 marks)
10. Find the domain representing the ranges (15,13,14,11,-12, and 17)
for $x \longrightarrow 2x+1$

END