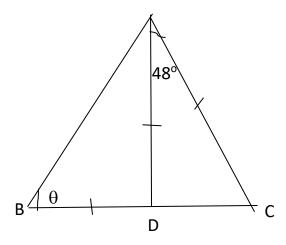
MERRYLAND HIGH SCHOOL - ENTEBBE HOLIDAYTERM 1 2020BREAK MATHEATICS

S.2

INSTRUCTIONS:

Answer ALL questions.

- 1. Find the LCM and HCF of 18, 42 and 48. (4 marks)
- 2. Adrian sold a motorcycle to Paul at a loss of 25%. If he sold it at shs. 2,560,000, Find how much money Adrian bought it. (4 marks)
- 3. Find the size of angle θ in the figure below:



- 4. Given that $r*s = \frac{r+3}{10^s}$, find
 - a) 4*-8
 - b) 7*(4*-8)
- (4 marks)

- 5. Express the bearing "South South East" in degrees. (4marks)
- 6. A straight line of gradient -1, passes through the point (3, -2).
- a) Determine the equation of the line.(2 marks)
- b) Through which point does the line cut the Y-axis? (2marks)
- 7. Mercy is five years younger than John and Peter is twice as old as Mercy. The sum of their ages is 49. Find Peter's age. (4marks)
- 8. Calculate the compound interest on shs.500,000 for10yearsatarateof8% per annum. (4marks)
- 9. Convert5.272727...... as a fraction in its simplest form. (4marks)
- 10. Given that:

P{All factors of 24}

 $Q = \{All factorsof30\}$

Find:

- (i) $n(P \cap Q)$
- (ii) $n(P^{\mid} \cap Q)$ where P^{\mid} is the complement of set P

END