

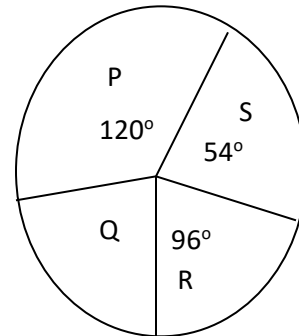
456/1  
MATHEMATICS  
Paper 1

Uganda Certificate of Education  
MATHEMATICS  
S2

**INSTRUCTIONS**

Answer ALL questions.

- The ages in years of six girls are as follows: 17, 8, 15, 12, 15, 13. Find the;  
(i) Mode  
(ii) Mean (4 marks)
- Jane bought a television set at shs 450,000, she sold it at shs 550,000. Calculate her percentage profit?
- A straight line passes through the points (-2, 5) and (2, -3). Determine the equation of the line. (4 marks)
- Two towns P and Q are such that the bearing of P from Q is  $085^\circ$ . Find the bearing of Q from P. (4 marks)
- Simplify;  
(i)  $1\frac{1}{4} + 2\frac{1}{2} - 1\frac{3}{4}$   
(ii)  $2\frac{1}{2} \times 3\frac{2}{3} \div 1\frac{5}{6}$  (4 marks)
- Solve for x in  $\frac{x^2}{2} = \frac{4}{x}$  (4 marks)
- Express 784 as a product of prime factors and hence find the square root of 784. (4 marks)
- If the exchange rate of a Kenya shilling to Uganda shillings is  $1\text{K shs} = 32\text{ Ugshs}$  and an American dollar to Uganda shilling is  $1\$ = \text{Ugshs } 3650$ . How many American dollars would one get in exchange for K. shs 19,750?
- Given that  $300_n = 147_{\text{ten}}$ , find the value of n. (4 marks)
- The pie chart below shows the number of form one students per stream at Merryland High School 2020.



If 420 students are in form one class, determine the number of students in S.1Q stream. (4 marks)

**END**

