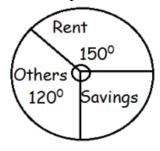
AME: STREAM
END OF TERM II EXAMINATIONS S.3 MATHEMATICS 1 Hour 30 Minutes
<ul> <li>STRUCTIONS:</li> <li>Attempt all questions in this paper.</li> <li>Use only the spaces provided to answer the questions.</li> </ul>
Work out $\frac{3000000}{4740000000000}$ giving your answer in the form $a \times 10^n$ where $n$ is an integer and $0 \le a < 10$ . Give your answer correct to three significant figures.
In designing a building, it was determined that forces acting on an I beam would deflect the beam by $\frac{x(1000-20x^2+x^3)}{185}cm$ , where $x$ is the distance from one end of the beam. Find the deflection when $x=0.0685cm$ .
(04 marks) In the space provided below, construct an angle of 75°.
Solve the equation $2^n = 64$ .

(03 marks)

5.	The expression used with a lens in a certain telescope is $a(a+b) + a^3 - (a+b)(2a^2 - s^2)$
	Simplify the expression.

**(04 marks)** 

6. The pie chart below shows how Namusisi spends her monthly income of Shs.600000.



How much money does she save?

(04 marks)



7. The value of a car at the beginning of 2023 was Shs.37 500 000. The value decreases by 6% annually. What would be the value of the same car at the end of 2025?

(04 marks)

\*\*\* END \*\*\*