

**POTENT ACADEMY REVISION SERIES
MATHEMATICAL ACTIVITIES
GRADE 9 | MODEL 04**

Name _____ Date _____

1. A national park recorded a total of five million, three hundred and forty-two thousand and fifteen tourists visiting in the last financial year. What is the number of tourists in symbols?
2. The total revenue collected by the Kenya Revenue Authority in a certain financial year was Ksh 2,134,678,901,500. Round off this amount to the nearest hundred billion.
3. Alice invested Ksh. 250,000 in a fixed deposit account that earns simple interest at a rate of 12% per annum for 3 years.
 - a) How much interest did her money earn over the 3 years?
 - b) What was the total amount in her account at the end of 3 years?
4. A piece of land was bought for Ksh. 800,000. If its value appreciates at a rate of 5% per year, find the value of the land at the end of the third year.

5. A photograph measuring 15 cm by 12 cm is mounted on a rectangular card such that there is a uniform border of 2 cm around the photograph. Calculate the area of the border.
6. The water level in a tank decreases by 2.5 cm every hour due to evaporation. What is the change in water level after 5 hours?
7. A father is three times as old as his son. If the son's current age is y years, what will be the product of their ages in 2 years' time?
8. Four traffic lights along a certain road change their signals at intervals of 30 seconds, 45 seconds, 60 seconds, and 90 seconds respectively. If they all change simultaneously now, after how much time will they change together again?

9. Using the laws of indices and logarithms, simplify $20y^4 \times 7y^2$

10. Find the surface area of the closed cylinder below

