

**POTENT ACADEMY REVISION SERIES**  
**MATHEMATICAL ACTIVITIES**  
**GRADE 9 | MODEL 01**

Name \_\_\_\_\_ Date \_\_\_\_\_

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1. A large-scale farming project in Nakuru County harvested 1,234,567 bags of maize. What is the place value of the digit 3 in this quantity?
2. A school development fund received donations amounting to four million, eighty-five thousand and two hundred and one shillings. What is the total donation in symbols?
3. A list of scores from a quiz includes: 7, 9.5,  $\sqrt{16}$ , and  $\frac{41}{5}$ . Which of these scores is an integer?
4. A submarine is submerged 80 meters below sea level. A helicopter is flying 150 meters above sea level directly over the submarine. What is the vertical distance between the helicopter and the submarine?
5. A company's stock price decreased by Ksh 5 each day for 7 consecutive days. What was the total change in the stock price over these 7 days?
6. A cylindrical water tank has a radius of 2.5 meters and a height of 4.0 meters. Using mathematical tables, determine the volume of the water tank.

7. A circular flower bed has a radius of 4.2 meters. Determine the side length of a square flower bed with the same area, using mathematical tables where necessary.
8. A rhombus has an area of  $54\text{cm}^2$ . If one of its diagonals is 12cm, find the length of the other diagonal.
9. Jane invested Ksh. 500,000 in a fixed deposit account that pays compound interest at a rate of 8% per annum. Calculate the total amount in her account after 3 years.
10. The figure below represents a square based pyramid shaped solid. Find its total surface area.

