

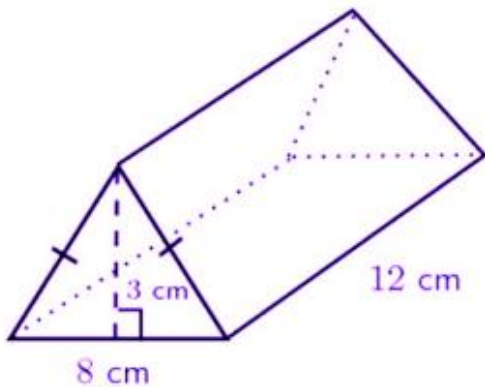
**POTENT ACADEMY REVISION SERIES**  
**MATHEMATICAL ACTIVITIES**  
**GRADE 9 | MODEL 05**

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

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1. The total budget allocated to education in Kenya for the fiscal year 2026/2027 is estimated to be Ksh 628,759,341,000. What is the place value of the digit 8 in this budget?
2. A telecommunications company reported having 157,892,305 mobile subscribers. Round off this number to the nearest hundred million.
3. A triangular garden has an area of  $75\text{m}^2$ . If the base of the triangle is 15m, find its perpendicular height.
4. A closed cylindrical container has a radius of 3.5m and a height of 7m. Calculate the total surface area of the container.
5. A business took a loan of Ksh. 1,200,000 at a compound interest rate of 12% per annum. Calculate the total amount to be repaid at the end of 4 years.

6. The number of students in a school increased by 6% annually. If the initial number of students was 600, find the number of students after the second year.
7. An elevator was initially at the 18th floor of a building. It went down 7 floors and then up 2 floors. At which floor did it stop?
8. The diagram below shows a model of a triangular prism made of cardboard. The Triangular end has a perpendicular height of 3 cm and a base of 8 cm, while its length is 15 cm 12 cm. Calculate the total surface area of the cardboard model.



9. A rectangular garden measures 20 meters in length and 15 meters in width. A path of uniform width 1.5 meters is constructed around the garden. Calculate the area of the garden excluding the path.
10. A freezer lowers the temperature of food by  $5^{\circ}\text{C}$  every 20 minutes. What is the total change in temperature after 1 hour?