

SENIOR ONE MATHEMATICS
PRE-XMAS MATHEMATICS DRILL 2

ITEM 1

1. Angel bought a small bee farm with 80 bees confined at 1.2 million shillings. When she consults the owner, she is told that from the following week, the bee population tripled every week. The bees produce honey after every two weeks that is worth 200,000 shillings.

Tasks

- a) What will be the number of bees in the n th week?
 - b) Find the number of bees in the 8th week
 - c) Calculate the number of weeks she takes to recover the invested money
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2. A cinema hall has 400 seats. Ticket prices are shs. 20,000 for an adult and shs.10,000 for a child. One evening, 80% of the seats in the cinema hall were occupied. There were 40 children present. In another evening, an unknown number of children were present and all the seats were occupied. The amount realised was shs. 6,800,000
- a) How much money did they collect from the sale of tickets on the first evening?
 - b) Build an equation for the number of children N in the second evening
 - c) Find the number of children, N
 - d) How much did they collect from the children?

MERRY CHRISTMAS & HAPPY 2025