



## Banana Maths Challenge 2021



### ANSWERS

1. Veronica plants 800 banana plants in 1 acre.
  - a) How many plants are there in 5 acres? **4,000**
  - b) How many banana plants would there be in 11 acres? **8,800**
2. A bunch of bananas weighs 27kg. (800 banana plants in one acre)  
Each banana plant produces one bunch of bananas every year.
  - a) What is the weight of bananas produced in a 1- acre field? **21,600kg**
  - b) What is the weight of bananas produced in 5 acres? **108,000kg**  
10% of the produce is rejected by the farmer (**10,800kg**)
  - c) How many bananas are sent to the UK from her 5 acre field?  
**97,200kg**
3. A banana box holds 18kg of bananas. A bunch of bananas weighs 27kg.
  - a) How many bunches would you need to fill 1 box? **2 bunches**
  - b) How many bunches would you need to fill 5 boxes? **4 bunches**  
How many bunches would you need to fill 20 boxes? **14 bunches**
4. A banana box weighs 18kg  
Veronica produces 80 boxes every two weeks.
  - a) How many kgs does she produce every two weeks? **1,440kg**
  - b) How many kgs does she produce every year? **37,440kg**
  - c) How many boxes does she produce each year? **2,080 boxes**
5. Veronica sells each box of bananas for \$18.00 which is the Fairtrade guaranteed minimum price. Veronica produces 80 boxes every two weeks
  - a) How much does she get for her bananas each year? **\$37,440**
6. A social premium of \$1.50 is given to the community for each box that is sold to a supermarket through Fairtrade.  
Veronica produces 80 boxes every two weeks
  - a) How many boxes does she produce each year? **2,080 boxes**  
25% of Veronica's bananas are sold through Fairtrade
  - b) How many dollars each year will the cooperative get from Veronica each year? **520 boxes - \$780**