Answer the following questions.

At the beginning of October, a team of scientists started to investigate a huge ant colony.

1. The colony takes up 855 square meters of land. According to the scientist estimation, there are 300 ants living in each square meter, what is the estimated population of this ant colony?

2. The scientists also estimated there are 1 queen ant for every 450 ants. How many queen ants are there?

3. At the end of the second weeks of October, the population of the ant colony was increased by 109 548. What was the population of the ant colony after two weeks?

4. At the end of the third week of October, a flood hit the area where the ant colony is located. The population of the ant colony was decreased by a quarter compare to the end of second week of October. What is the population of the ant colony at the end of third week?

5. The scientist predicts the ant colony will decrease in size when it is December. The population of the colony will be decreased by 512 every day. If the population of the ant colony is 326 129 at the beginning of December, what will be the population at the end of second week of November?

ANSWERS

1) 256 500

2) 570 queen ants

3) 366 048

4) 274 536

5) 318 961