Geometric Sequence | Word Problems

1) A manufacturing unit produced 112, 336 and 1008 Easter baskets on days one, two and three. If the unit continues to manufacture baskets at the same rate, how many baskets will it produce on the 4th, 5th and 6th day respectively?

_____

2) Joanne and her friends went on a hiking vacation to the national park. They covered 2 miles on the first day. They went on a 4-mile hike and 8-mile hike on day 2 and day 3, and the hiking distance continued to increase in a geometric sequence. How many miles did Joanne and her friends hike on the 4th day?

_____

3) Nina and Zoe, two local Girl Scouts selling cookies, sold 3 cookies on Monday, 9 cookies on Tuesday, 27 cookies on Wednesday, and so on in a geometric sequence. How many cookies did Nina and Zoe sell on Friday?

_____

4) Charles is keen to grow tomatoes in his backyard. He plants 8 seeds on day 1, 16 seeds on day 2, 32 seeds on day 3, and so on in a geometric sequence. How many seeds will Charles plant on the 10th day?

_____

5) Mr. Botham is conducting an experiment to observe the growth of bacteria. He records the original count of the bacteria as 15. If the number increases by 2% every hour, how many bacteria will be there after 3 hours?

_____