Name:

QUIZ – MATH GRADE 12 IB SL

1. (100%) In a factory that makes 40 products a day there is a probability of 0.15 that a product will be defective.

   a. (5%) Find the expected number of defective products.

   b. (5%) Find the standard deviation.

   c. (10%) Find the probability of the most probable number of defective products.

   d. (10%) Find the probability that no defective products are made

   e. (20%) Find the probability that less than 10 products are defective.

   f. (20%) Find the probability that at least 3 products are defective

   g. (15%) Find the probability that in 2 consecutive days exactly 1 product will be defective.

   h. (15%) Given that less than 6 defective product were produced, find the probability that none is defective.