## **Group Project on Exponential Growth: The Black Bear Population**

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In 1999 the black bear population in Granite Park was 325 and the exponential growth rate of the black bear population was 5% per year.

**1.** Find the exponential growth function for the black bear population.

Year when t = 0:\_\_\_\_\_\_.

k = \_\_\_\_\_.
P\_0 = \_\_\_\_\_. **Answer**: P(t) = \_\_\_\_\_.

**2.** According to this model, what will the black bear population be in 2009? Round to the nearest whole number.

**3.** How long will it take for the black bear population to reach 800? Round to the nearest whole number.