**QUESTION 11**

1. Let **n** be the number of adult penguins between 65cm and 75cm.

Since 75cm is 2standard deviation above the mean, 65cm, then the total of 34% and 14% of the population of the adult penguin is between 65cm and 75cm. We have,

Therefore, there is approximately **1440** adult penguins between 65cm and 75cm.

1. Let **X** be the event that an adult penguin’s height is less than 60cm.

The population below 60cm is consist of 2% and 14% of the whole population. We have,

Round to the nearest 0.05,

Therefore, the probability that an adult penguin’s height is less that 60cm is **0.15**.

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