

# Project one

Eric Anku

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**1. What is the mean birthweight of babies of non-smoking mothers?** The mean birth weight of babies of non-smoking mothers is 3.51 kg.

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**2. What is the mean birthweight of babies of smoking mothers?** The mean birth weight of babies of non-smoking mothers is 3.13 kg.

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**3. What is the mean head circumference for babies of non-smoking mothers?** The mean head circumference of babies of non-smoking mothers is 35.05 cm.

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**4. What is the mean gestational age at birth for babies of smoking mothers?** The mean gestational age of babies of smoking mothers is 38.95 weeks.

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**5. What is the maximum head circumference for babies of smoking mothers?** The maximum head circumference of babies of smoking mothers is 39 cm.

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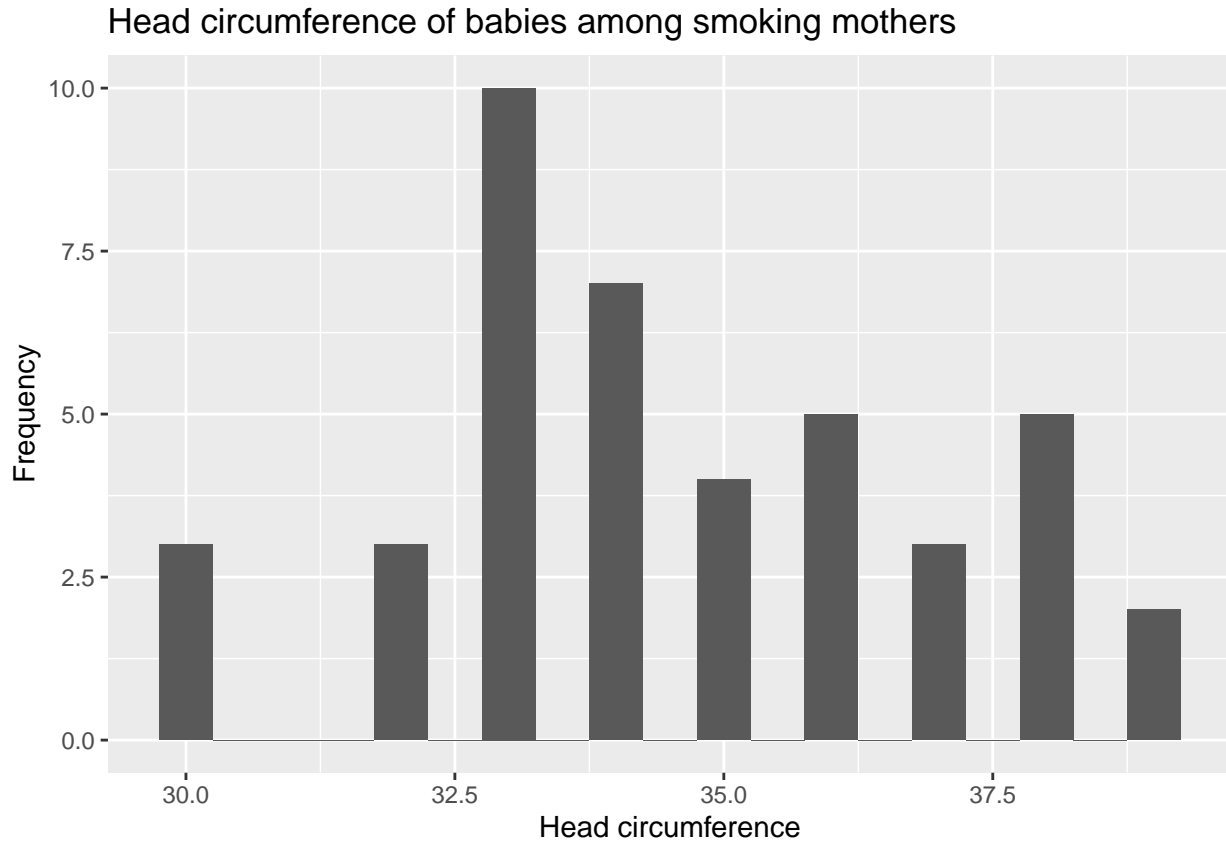
**6. What is the minimum gestational age at birth for babies of smoking mothers?** The minimum gestational age at birth for babies of smoking mothers is 33 weeks.

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**7. What is the baby birth weight range for babies of smoking mothers?** The birth weight range for babies of smoking mothers are 1.92, 4.57

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**8. Are head circumference data for babies of smoking mothers normally distributed?** The head circumference of babies of smoking mothers does not follow a normal distribution as shown in the image following.

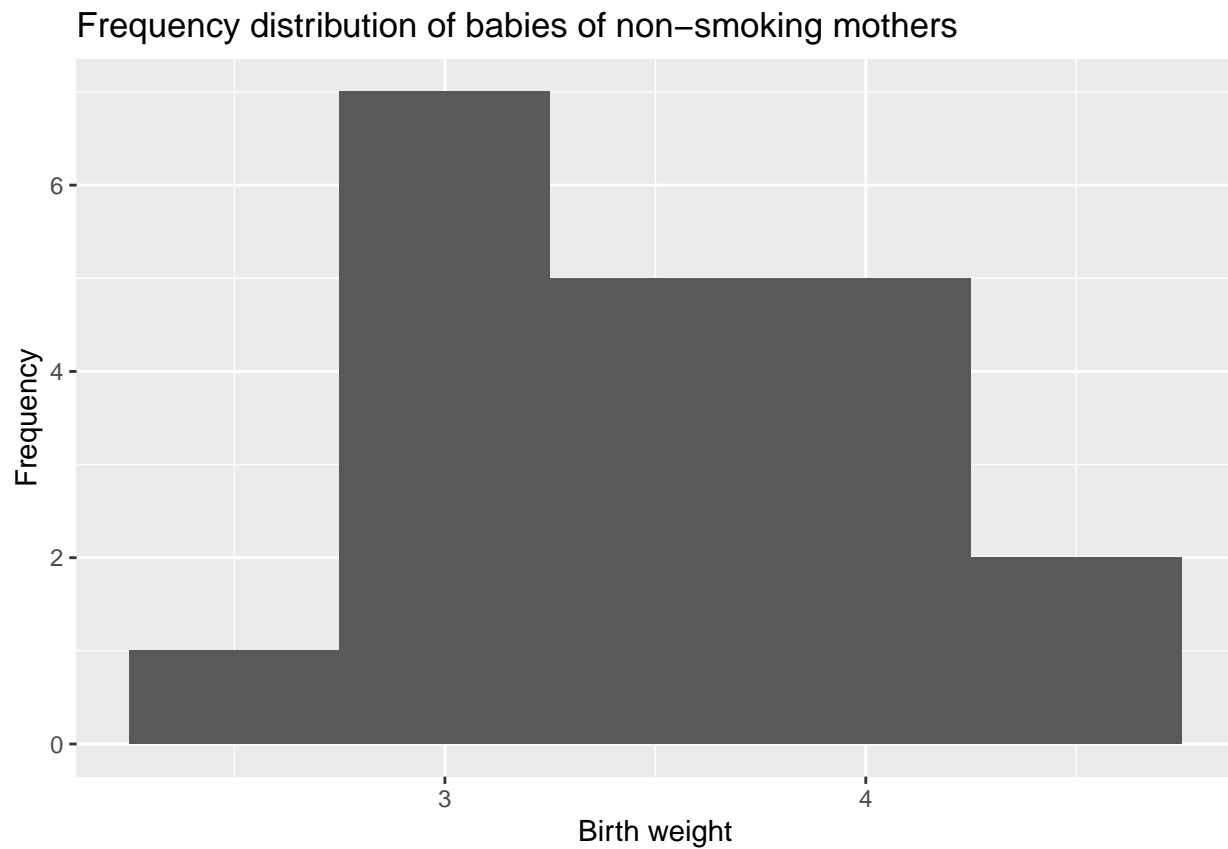


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**9. What is significance value for the above Shapiro-Wilk test?** The significance value of the above distribution indicates that head circumference data for babies of non-smoking mothers is not normally distributed. P value is 0.37

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**10. How are birthweight data of non-smoking mothers skewed?** The birth weight data of non-smoking mothers is normally distributed with a shapiro test p-value of 0.7



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**11. Are birthweight data for babies of smoking mothers normally distributed?** Birthweight data for babies of smoking mothers is normally distributed as evidenced by a shapiro test with p value 0.95

