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AP Statistics

2019-02-06 2.1 Assignment

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Pg. 105-109 5,7,9,11,15,19,21,31,33-38
Ouestion 5
  The girl is heavier than 48% of other girls her age and taller than 78%.
Ouestion 7
  Part A
    This student sent approximately 200 texts and is in the 80th percentile
    (80% of students sent less than her)
  Part B
    105. The median is the 50th percentile, as it is the middle (median) of
    the data
Ouestion 9
  Part A
    IQR = 75th percentile - 25th percentile = 45$ - 19$ = 26$
  Part B
    30th percentile
Ouestion 11
  Elanor: z = (680 - 500)/100 = 1.8
  Gerald: z = (27 - 18)/6 = 1.5
  Eleanor had the higher score
Ouestion 15
  Part A
    % = 22/29 = 75.86\% = 76th percentile
    Lidge's salary was higher than 76% of other players
  Part B
    z = (6350000-3388617)/3767484 = 0.786
    This means that Lidge's salary is 0.786 of a standard deviation away
    from the mean of the team.
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Question 19

Part A

Mean' = Mean + 18 in = 69.188 + 18 = 87.188

Median' = Median + 18 in = 69.5 + 18 = 87.5

Part B

Stddev' = Stddev = 3.20

IQR' = IQR = Q3-Q1 = 3.25

Question 21

Part A

Mean' = Mean • (1 ft/12 in) = 5.766 ft

Median' = Median • (1 ft/12 in) = 5.792 ft

Question 31

Part A

Mean: C

Median: B

Part B

Mean: B

Median: B

Question 33: C

Question 34: B

Question 35: C

Question 36: B

Question 37: D

Question 38: E