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1) Tom's video game scores were 126, 130, 145, 160, 110 and 165. Find the:

a) mean: b) median:

c) range: d) IQR:

e) standard deviation:

*Round to the *nearest hundredth* if necessary.

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2) The heights of 12 adult males are listed below.
a) Construct a box plot of this data and describe it.

65	75	69	68	58	73
66	71	68	67	68	70

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3) The dot plot below shows the number of text messages sent by different students in one day. (Please note you do not need to calculate the exact value for this problem.)

Use the diagram below to answer the following:
a)   Describe the shape of the data.

b) Describe the typical value for the number of text messages sent on a given day. Explain why you chose this measure.

c) Will the mean be greater than, less than or equal to the median? Explain.

Number of Text Messages Sent Today

17 18 19 20 21 22 23 24 25

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4) Create a frequency table and histogram for the number of chocolate candies per bag of trail mix:

50	42	99	45	68	32	67
91	61	31	75	39	62	64
49	55	51	33	97	96	64

Frequency table

Interval	# of values
1-20	
21-40	
41-60	
61-80	
81-100	

5) The two way table shows the places that females and males volunteered in the past month.

a) Complete the table with the missing values.

	Animal shelter	Hospital	Library	Total
Males	26	13	9	
Females	21	17	14	

b) Use the below to answer the following questions. The table is the results of a survey conducted on people and if they have a cell phone/MP3 player:

	MP3 Player	No MP3 Player	Total
Cell Phone	57		78
No Cell Phone	13	9	
Total			

What is the total number of data values?

What percentage of all people surveyed have a cell phone but no MP3 player?

6) The table shows a data set that is obtained by collecting information about age and height of a group of children.
a) Draw a scatter plot of the data and determine on the line below what relationship, if any, exists in the data.
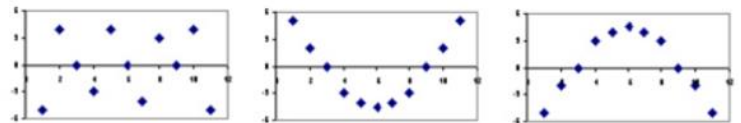
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Age in years	3	5	8	11	12	10	4	9	6	7	11
Height in inches	36	40	45	56	64	52	37	51	42	44	60
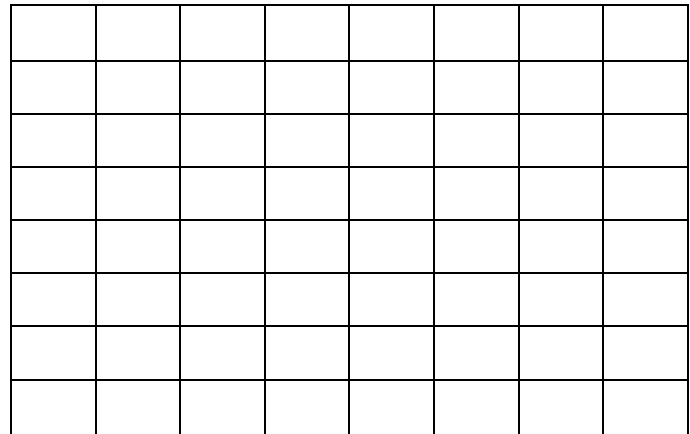
b) Write the equation for the line of best fit. Round any values to the *nearest thousandth*.

_____

c) What is the correlation coefficient rounded to the *nearest thousandth*? _____

7) Answer **TRUE** or **FALSE** for each statement.
a) A value of *r* near zero indicates there is a weak linear relationship between x and y.

_____

b) A value of *r* = -0.5 indicates a weaker linear relationship between x and y than the value of *r* = 0.5. _____

c) A value of *r* = 1 indicates that there is a cause and effect relationship between x and y. _____

8) Which of the below residual plots could show a linear fit?

Explain your answer.