

Practice

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Practice 1

Sales revenue (\$ million)	Advertising cost (\$ million)
7	32
8	35
9	39
11	44
12	50
14	52
15	55

Here sales revenue influenced by the advertising cost

- Calculate correlation coefficient.
- Determine the fitted regression model.
- Estimate sales revenue when advertising cost is 60 million \$.
- How precise your prediction?
- Calculate the error value.
- If the last advertising value is corrected to 50, calculate the corrected regression parameter.

Practice 2

Stem	Leaf
1	3 8 9
2	1 4 7 8 9
3	0 1 2 3 4 5 8 8 9
4	0 2 4 5 6 7 7
5	7

- a) Calculate mean, median and mode
- b) 25th and 75th Percentile value with interpretation
- c) Draw box and whisker plot
- d) Is this symmetrical or asymmetrical distribution?



Practice 3

Suppose you're making a table for 15 observations with four classes: (5-9), (9-13), (13-17), and (17-21). The relative frequencies for these classes are 0.2, 0.4, 0.2, and 0.2, respectively.

- a) Reconstruct the table and calculate frequency.
- b) Calculate median/Q2/50th percentile value
- c) Calculate median/Q2/50th percentile value from cumulative frequency curve.



Thank You

