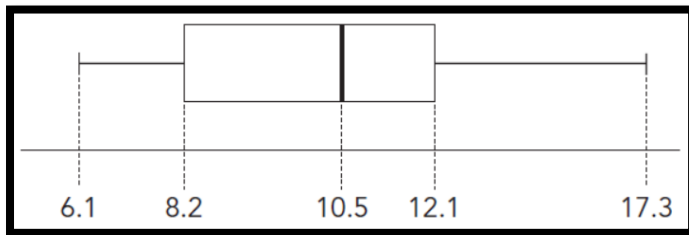




Question 01

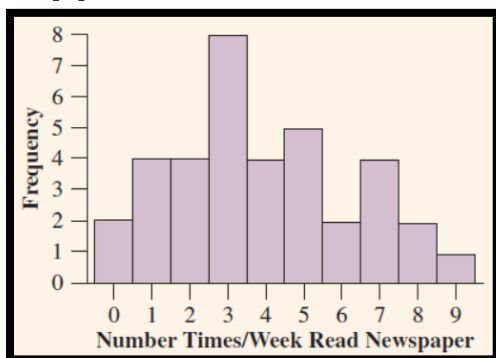
[24 Marks]

For questions 1–4, refer to the following box plot:



- What is the **median** of the dataset whose box plot is shown?
 - 8.2
 - 10.1
 - 10.5
 - 12.1
- What is the **range** of the dataset whose box plot is shown?
 - 11.2
 - 9.1
 - 6.8
 - 3.9
- What is the **IQR** of the data set whose box plot is shown?
 - 11.2
 - 9.1
 - 6.8
 - 3.9
- Which of the following statements is always true of the box plot shown?
 - There are no outliers in the data.
 - A value of 17.3 is a possible outlier.
 - Any value between 6.1 and 8.2 is a possible outlier.
 - Any value between 12.1 and 17.3 is a possible outlier.

For questions 5 to 9 — How often do students read the newspaper?

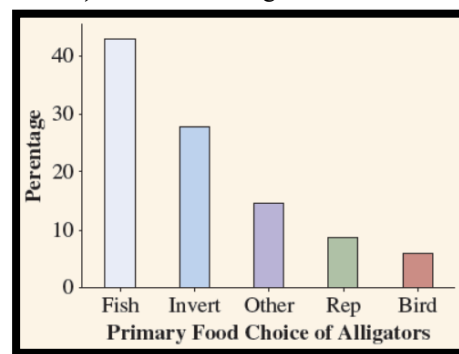


- Is this variable continuous or discrete?
 - Continuous
 - Discrete
- Minimum** response
 - 0
 - 2
 - 1
 - 9
- Maximum** response
 - 0
 - 2
 - 1

d) 9

- Number of students who did not read the newspaper at all
 - 0
 - 2
 - 1
 - 9
- The **mode** is
 - 9
 - 8
 - 3
 - 0

For questions 10 to 12 — For 219 alligators captured in four Florida lakes, researchers classified the primary food choice (in volume) found in the alligator's stomach in one of the categories



- Is primary food choice **categorical or quantitative**?
 - Categorical
 - Quantitative
- Which is the **modal category** for primary food choice?
 - Fish
 - Invert
 - Bird
 - Rep
- About what **percentage** of alligators had fish as the primary food choice?
 - 43
 - 25
 - 18
 - 5

For questions 13 to 17 — A student wants to examine the distribution of his scores as shown on his academic transcript. To this end, he constructs the stem-and-leaf plot of his records:

6	588
7	01136779
8	1223334677789
9	011234458

- The number of courses is _____
 - 3
 - 22
 - 33
 - 17
- The **minimum** score is _____
 - 6
 - 65
 - 56

- h) 09
15. The **Maximum** score is _____
- a) 118
b) 98
c) 81
d) 95
16. The **mode** is _____
- a) 3
b) 7
c) 3 and 7
d) 1 and 4
17. The **Median** is _____
- a) 17
b) 82.5
c) 38
d) 83

For questions 18 to 21, refer to the information shown here:



18. According to the dot plot, how many customers waited less than 15 minutes in line?
- a) 10
b) 12
c) 13
d) 15
19. What is the greatest amount of time in minutes waited in line by a customer?
- a) 15
b) 17
c) 19
d) 20
20. The **median** is
- a) 8
b) 9
c) 10
d) 13
21. To the nearest tenth, what is the **mean number** of minutes the 16 customers waited in line?
- a) 10.0
b) 10.3
c) 10.5
d) 11.0
22. In the following data set, what additional number should be included in the data set to yield a mean of 10?
5, 8, 10, 12, ____
- a) 8
b) 10
c) 12
d) 15

The heights (in inches) of 30 adult males are listed below. A frequency distribution shows the frequency and relative frequency using five classes.

Class 01: 67.0 – 68.4

Class 02: 68.5 – 69.9

Class 03: 70.0 – 71.4

Class 04: 71.5 – 72.9

Class 05: 73.0 – 74.4

70	72	71	70	69	73	69	68	70	71
67	71	70	74	69	68	71	71	71	72
69	71	68	67	73	74	70	71	69	68

23. Which **category** of heights represents the **mode**?
- a) 67.0 – 68.4
b) 68.5 – 69.9
c) 70.0 – 71.4
d) 71.5 – 72.9
24. What **proportion** of the 30 adult males had heights less than 70 inches?
- a) 0.167%
b) 0.367%
c) 0.433
d) 0.20

Name

ID

ZIPGRADE.COM

1 (a) (b) (c) (d) 13 (a) (b) (c) (d)

2 (a) (b) (c) (d) 14 (a) (b) (c) (d)

3 (a) (b) (c) (d) 15 (a) (b) (c) (d)

4 (a) (b) (c) (d) 16 (a) (b) (c) (d)

5 (a) (b) (c) (d) 17 (a) (b) (c) (d)

6 (a) (b) (c) (d) 18 (a) (b) (c) (d)

7 (a) (b) (c) (d) 19 (a) (b) (c) (d)

8 (a) (b) (c) (d) 20 (a) (b) (c) (d)

9 (a) (b) (c) (d) 21 (a) (b) (c) (d)

10 (a) (b) (c) (d) 22 (a) (b) (c) (d)

11 (a) (b) (c) (d) 23 (a) (b) (c) (d)

12 (a) (b) (c) (d) 24 (a) (b) (c) (d)

24 MCQ (2736)

Question 02

[6 Marks]

A recent survey asked students, “On average, how many times in a week do you go to a restaurant for dinner?” Of the 570 respondents, 84 said they do not go out for dinner, 290 said once, 100 said twice, 46 said third, 30 said 4 times, 13 said 5 times, 5 said 6 times, and 2 said 7 times.

- A) Display the data in a table.
B) Find the median
C) Find the Mean

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