

# Victoria University of Bangladesh

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**Course Title: Statistical Decision Making**

**Course code: STA 321**

**Program: BBA**

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Ans. to the Q. No - 1

Statistics is a branch that deals with every aspect of the data. Statistical knowledge helps to choose the proper method of collecting the data and employ those samples in the correct analysis process in order to effectively produce the result. In short, statistics is a crucial process which helps to make the decision based on the data.

Ans. to the Q. No - 2

Frequency Distribution of stress on job

Stress on job	Tally	frequency (f)
Very		13
Somewhat		18
None		9
	Sum =	40

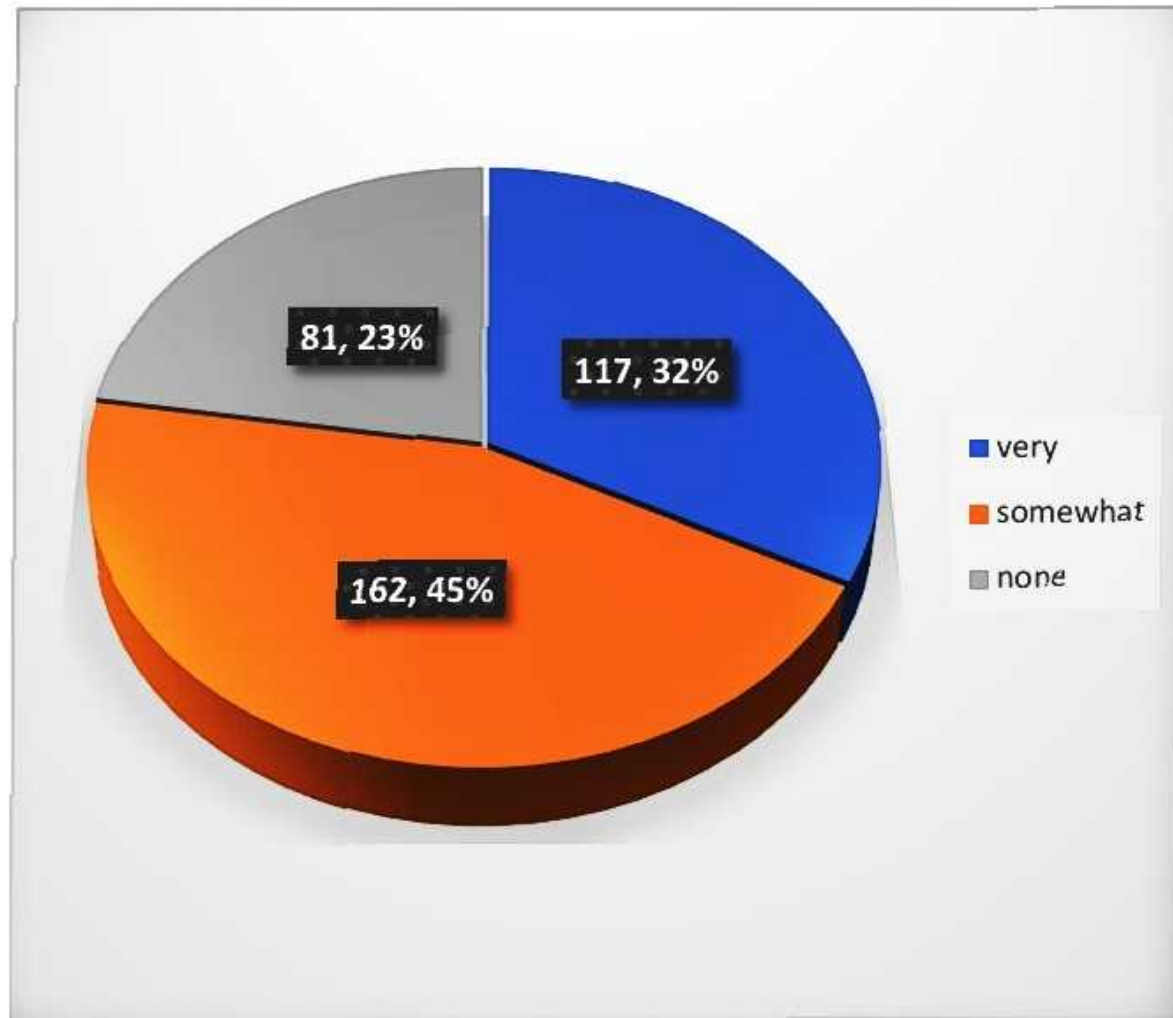
Relative frequency and percentage distributions of stress on job

Stress on job	relative frequency	percentage
Very	$13/40 = .325$	$.325(100) = 32.5$
Somewhat	$18/40 = .45$	$.45(100) = 45$
None	$9/40 = .225$	$.225(100) = 22.5$
	Sum = 1.000	Sum = 100

## Angle size for the Pie chart

Stress on job	Relative frequency	Angle size
Very	.325	$360 (.325) = 117$
Somewhat	.45	$360 (.45) = 162$
None	.225	$360 (.225) = 81$

Stress on job	Angle size
very	117
somewhat	162
none	81



## Ans. to the Q No-3

This variable by  $x$ , then 6 values of  $n$  are -

where,  $n_1 = 20$  represent the ~~2008~~ <sup>2012</sup>

$$n_1 = 20$$

$$n_2 = 33$$

$$n_3 = 38$$

$$n_4 = 15$$

$$n_5 = 42$$

$$n_6 = 24$$

where, represent - 2021 sales (Billion TR)

$$(Labaid ph.) = 20$$

$$(Squire ph.) = 33$$

$$(Beacon ph.) = 38$$

$$(Beximco ph.) = 15$$

$$(popular ph.) = 42$$

$$(Achme Lab.) = 24$$

$$\sum n = n_1 + n_2 + n_3 + n_4 + n_5 + n_6$$

$$= 20 + 33 + 38 + 15 + 42 + 24$$

$$= 172$$

$$\text{Mean } \bar{n} = \frac{\sum n}{n} = \frac{172}{6} = 28.667 \text{ Billion}$$

Thus, the mean 2021 sales of these six companies was 28.667 billion TR.