

(Q1)

- (1) Crosstabulation.
- (2) 50
- (3) Gender: nominal. Weight: ratio.(4) 38%
- (5) 0.28
- (6) 14%
- (7) 26
- (8) 42.11%
- (9)

Weight	Male	Female
50 - 64	16.13	42.11
65 - 79	22.58	31.58
80 - 94	32.26	21.05
95 - 109	29.03	5.26
Total	100%	100%

- (10) Female

(Q2)

- (1) Nominal.
- (2) 60
- (3) 15

(Q3)

- (1) Bar graph.
- (2) All students of BZU.
- (3) 34
- (4) Ordinal.
- (5) 12
- (6) 0.1765
- (7) 11.76%

(Q4)

- (1) 36.75
- (2) 10.29
- (3) 105.79
- (4) 10.28
- (5) 105.58

(Q5)

- (1) 8
- (2) 3
- (3) 2
- (4) 2.5
- (5) Not an outliers
- (6) 65
- (7) 50%
- (8) 25%

(Q6)

- (1) 0.15
- (2) 0.375
- (3) 0.6
- (4) 0.075
- (5) 0.4875
- (6) 0.5556
- (7) 0.3
- (8) No, because $P(\text{No}) \neq P(\text{No} \mid 50 - 65)$

(Q7)

- (1) 0.25
- (2) 0.65
- (3) 0.70
- (4) 0.35
- (5) 0.95
- (6) 0.20
- (7) No, because $P(A) \neq P(A|B)$
- (8) No, because $P(B \cap C) \neq 0$

(Q8)

- (1) 0.08
- (2) 0.01
- (3) 0.35

(4) 0.36

(Q9)

(1)

	Degree			
Gender	Bachelor	Master	Doctorate	Total
Male	40	225	300	565
Female	30	320	85	435
Total	70	545	385	1000

(2) 0.435

(3) 0.545

(4) 0.3

(5) 0.475

(6) 0.455

(7) 0.3982

(8) 0.2208

(9) No, because $P(\text{female}) \neq P(\text{female} \mid \text{doctorate})$

(10) Yes, because $P(\text{male} \cap \text{female}) = 0$

(Q10)

(1) 308915776

(2) 165765600

(Q11) 658008

(Q12) 78960960

(Q13) 151200