Contingency Tables

1. What kind of correlation exists, given the table below?

X \ Y	[0,1[	[1,2[	[2,3[	[3,4[	[4,5[
2	0	0	0	0	4
4	0	0	0	3	0
6	0	0	3	0	0
8	0	2	0	0	0
10	3	0	0	0	0

Strength Direction

☐ Zero

☐ Weak Positive ☐

☐ Strong Negative ☐

2. What kind of correlation exists, given the table below?

X \ Y	[0,20[	[20,40[	[40,60[	[60,80[	[80,100[
10	6	0	0	0	0
20	0	7	0	0	0
30	0	0	9	0	0
40	0	0	0	8	0
50	0	0	0	0	9

Strength Direction

☐ Zero

☐ Weak Positive ☐

☐ Strong Negative ☐

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1. What kind of correlation exists, given the table below?

Y / X	[0,1[	[1,2[	[2,3[	[3,4[	[4,5[
2	0	0	0	0	4
4	0	0	0	3	0
6	0	0	3	0	0
8	0	2	0	0	0
10	3	0	0	0	0

STEP 1 circle all numbers that are not 0.

STEP 2 TURN THE TABLE COUNTER-CLOCKWISE SO THE X-values are along the BOTTOM (HORIZONTAL).

STEP 3 STRAIGHT LINE (STRONG) OR SPREAD OUT (WEAK).

STEP 4 POSITIVE SLOPE OR NEGATIVE SLOPE.

Strength

- ☐ Zero
- ☐ Weak
- ☑ Strong

Direction

- Positive ☐
- Negative ☑

POINTS ARE IN A STRAIGHT LINE (STRONG)
TRENDING DOWNWARD (NEGATIVE)

2. What kind of correlation exists, given the table below?

Y / X	[0,20[	[20,40[	[40,60[	[60,80[	[80,100[
10	6	0	0	0	0
20	0	7	0	0	0
30	0	0	9	0	0
40	0	0	0	8	0
50	0	0	0	0	9

STEP 1 circle all numbers that are not 0.

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Strength

- ☐ Zero
- ☐ Weak
- ☑ Strong

Direction

- Positive ☑
- Negative ☐

POINTS ARE IN A STRAIGHT LINE (STRONG)
TRENDING UPWARD (POSITIVE)

3. What kind of correlation exists, given the table below?

Y / X	[0,1[	[1,2[	[2,3[	[3,4[	[4,5[
1	3	1	5	2	3
2	2	4	2	4	3
3	5	2	4	1	4
4	3	3	3	3	3
5	4	4	1	6	5

Strength Direction

☐ Zero

☐ Weak Positive ☐

☐ Strong Negative ☐

4. What kind of correlation exists, given the table below?

Y / X	[0,2[	[2,4[	[4,6[	[6,8[	[8,10[
10	0	0	0	2	2
20	0	0	3	4	2
30	1	1	4	1	0
40	2	3	3	2	0
50	4	2	0	0	0

Strength Direction

☐ Zero

☐ Weak Positive ☐

☐ Strong Negative ☐

3. What kind of correlation exists, given the table below?

X \ Y	[0,1[	[1,2[	[2,3[	[3,4[	[4,5[
1	3	1	5	2	3
2	2	4	2	4	3
3	5	2	4	1	4
4	3	3	3	3	3
5	4	4	1	6	5

STEP 1 circle all numbers that are not 0.

STEP 2 TURN THE TABLE COUNTER-CLOCKWISE SO THE X-values are along the BOTTOM (HORIZONTAL).

STEP 3 STRAIGHT LINE (STRONG) OR SPREAD OUT (WEAK).

STEP 4 POSITIVE SLOPE OR NEGATIVE SLOPE.

Strength

- [x] Zero
- [ ] Weak
- [ ] Strong

Direction

- [ ] Positive
- [ ] Negative

DOTS EVERYWHERE.

WEAKEST POSSIBLE CORRELATION (ZERO, $r = 0$)

4. What kind of correlation exists, given the table below?

X \ Y	[0,2[	[2,4[	[4,6[	[6,8[	[8,10[
10	0	0	0	2	2
20	0	0	3	4	2
30	1	1	4	1	0
40	2	3	3	2	0
50	4	2	0	0	0

STEP 1 circle all numbers that are not 0.

STEP 2 TURN THE TABLE COUNTER-CLOCKWISE SO THE X-values are along the BOTTOM (HORIZONTAL).

STEP 3 STRAIGHT LINE (STRONG) OR SPREAD OUT (WEAK).

STEP 4 POSITIVE SLOPE OR NEGATIVE SLOPE.

Strength

- [ ] Zero
- [x] Weak
- [ ] Strong

Direction

- [ ] Positive
- [x] Negative

DOTS SPREAD OUT → WEAK.

TRENDING DOWNWARD → NEGATIVE.

5. What kind of correlation exists, given the table below?

Y / X	[0,100[	[100,200[	[200,300[	[300,400[	[400,500[
1	5	0	0	0	0
2	4	2	5	0	0
3	3	3	3	4	3
4	0	4	5	3	4
5	0	0	1	0	3

Strength

- ☐ Zero
- ☐ Weak
- ☐ Strong

Direction

- Positive ☐
- Negative ☐

5. What kind of correlation exists, given the table below?

Y / X	[0,100[	[100,200[	[200,300[	[300,400[	[400,500[
1	5	0	0	0	0
2	4	2	5	0	0
3	3	3	3	4	3
4	0	4	5	3	4
5	0	0	1	0	3

Strength

- ☐ Zero
- ☑ Weak
- ☐ Strong

Direction

- ☑ Positive
- ☐ Negative

STEP 1 Circle all numbers that are not 0.

STEP 2 TURN THE TABLE COUNTER-CLOCKWISE SO THE X-values are along the BOTTOM (HORIZONTAL).

STEP 3 STRAIGHT LINE (STRONG) OR SPREAD OUT (WEAK).

STEP 4 POSITIVE SLOPE OR NEGATIVE SLOPE.

- DOTS ARE SPREAD OUT (WEAK)
- LINE IS TRENDING UPWARD (POSITIVE)