

Calculate the Pearson correlation for the relationship between average hours of TV watched per week and the number of violent acts that children exhibited in a fixed time period:

TV (hours)	14	8	6	12
Violent acts	9	6	1	8

Use the phi coefficient to calculate the correlation between responses on the following two test items (where 0 = incorrect and 1 = correct):

Test item 1	0	0	1	1	0	0	1	1	1	0
Test item 2	0	0	1	0	1	1	1	1	1	0

The following data represent 10 individuals' scores on a particular test item (0 = incorrect, 1 = correct) along with their total scores on the test. Compute the point-biserial correlation between the item scores and the total scores:

Item score	0	0	1	0	1	1	1	0	1	1
Total score	12	15	16	10	7	5	6	10	15	14

Two researchers measured participants' self-esteem and then had them judge their own physical attractiveness. Calculate the Spearman correlation for these data:

Self-esteem	40	39	37	20	16	12	7
Attractiveness	97	99	100	90	94	70	78