

y	x	(x - \bar{x})	(y - \bar{y})	(x - \bar{x}) * (y - \bar{y})
7	50	-17	-4.7	79.9
10	55	-12	-1.7	20.4
12	68	1	0.3	0.3
8	47	-20	-3.7	74
12	76	9	0.3	2.7
10	50	-17	-1.7	28.9
15	76	9	3.3	29.7
16	80	13	4.3	55.9
12	86	19	0.3	5.7
11	79	12	-0.7	-8.4
8	51	-13	-3.7	48.1
9	58	-9	-2.7	24.3
16	88	21	4.3	90.3
18	90	23	6.3	144.9
14	53	-14	2.3	-32.2
12	69	2	0.3	0.6
10	60	-7	-1.7	11.9
11.7	67			577

$$\text{Covarianza} = \frac{577}{16} = 36.06 //$$

Y	X	$(x - \bar{x})$	$(y - \bar{y})$	$(x - \bar{x})(y - \bar{y})$
9	40	-15.2	-2.6	39.52
10	50	-5.2	-1.6	8.32
11	56	-3.2	-0.6	1.92
8	45	-10.2	-3.6	36.72
15	65	9.8	3.4	33.32
12	60	4.8	0.4	1.92
13	58	2.8	1.4	3.92
8	45	-12.2	-3.6	43.92
12	64	8.8	0.4	3.52
8	46	-9.2	-3.6	33.12
12	64	8.8	0.4	3.52
18	70	14.8	6.4	94.72
15	63	7.8	3.4	26.52
13	55	-0.2	1.4	-0.28
10	53	-2.2	-1.6	3.52
11.6	55.2			334.2

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$$\text{Covarianza} = \frac{334.2}{14} = 23.87$$

Y	X	$(x-\bar{x})$	$(y-\bar{y})$	$(x-\bar{x}) * (y-\bar{y})$
15	80	11.42	2.06	23.52
12	55	-13.58	-0.94	12.76
7	50	-18.58	-5.94	110.36
15	79	10.42	2.06	21.46
12	54	-14.58	-0.94	13.70
10	43	-25.58	-2.94	75.20
14	65	-3.58	1.06	-3.79
13	55	-13.58	0.06	-0.81
15	80	11.42	2.06	23.52
13	69	0.42	0.06	0.02
10	70	1.42	-2.94	-4.17
14	83	14.42	1.06	15.28
15	90	21.42	2.06	44.12
12	56	-12.58	-0.94	11.82
16	93	24.42	3.06	87.91
13	64	-4.58	0.06	-0.27
14	80	11.42	1.06	12.10
12.94	68.58			442.73

$$\text{Covarianza} = \frac{442.73}{16} = 27.67$$