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UTS - Statistika Lanjut

1.	No.	Motivasi(x)	Nilai(y)	x.y	x <sup>2</sup>
	1.	60	450	27.000	3.600
	2.	70	475	33.250	4.900
	3.	75	450	33.750	5.625
	4.	65	470	30.550	4.225
	5.	70	475	33.250	4.900
	6.	60	455	27.300	3.600
	7.	80	475	38.000	6.400
	8.	75	470	35.250	5.625
	9.	85	485	41.225	7.225
	10.	90	480	43.200	8.100
	11.	70	475	33.250	4.900
	12.	85	480	40.800	7.225
	$\Sigma = 12$	$\Sigma x = 885$	$\Sigma y = 5.640$	$\Sigma xy = 416.825$	$\Sigma x^2 = 66.325$
		$(\Sigma x)^2 = 885^2$	$(\Sigma y)^2 = 5.640^2$		
		$= 783.225$	$31.809.600$		

y <sup>2</sup>
202.500
225.625
202.500
220.900
225.625
220.900
235.225
230.400
225.625
230.400
$\Sigma y^2 =$
2.652.350

$$r = \frac{(12(416.825)) - (885 \cdot 5.640)}{\sqrt{[(12 \cdot 66.325) - 783.225] \cdot [(12 \cdot 2.652.350) - 31.809.600]}}$$

$$= \frac{5.001.900 - 4.991.400}{\sqrt{(795.900 - 783.225) \cdot (31.828.200 - 31.809.600)}}$$

$$= \frac{10.500}{\sqrt{12.675 \cdot 18.600}}$$

$$= 0,68 \text{ memiliki korelasi linier.}$$