

Hazighment - 02

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	x 23.3 17.5 17.8 20.7 18.1 20.9 32.9 20.8
	4 4.5
	3.8 4.6 3.2 5.2 4.7 4.4 5.6
Solut	
	23.2 42 502
A Control of the Cont	23.3 4.2 542.89 17.64 97.86
	17.5 3.8 306.25 14.44 66.5
Assessed to	1.17.8
	20.7 3.2 422.44
	120 19 66.24
	26.9 4.7 11010
	1204 198.23
	524.41 19.36 190.76
*	20.8 5.6 432.64 31.36 116.42
	500=162
	0 23 229 2 1721.04
5	$3\vec{c} = \xi x = 162 = 20.2$, $\vec{y} = \xi y = 35.7 = 4.47$
	$\frac{1}{2} = \frac{162}{8} = \frac{20.2}{9} + \frac{9}{9} = \frac{59}{8} = \frac{35.7}{8} = 4.46$
	(81(xig) = 1 & xig
2	0 00 - (1722) 272
Birth Company	= 1 (722.07)-(20.25 x 4.46)
	8
	70.1068
0.52	$\delta c = \int \int \xi_1 c^2 - ic^2 = 2.10475$
A.	h
	$\frac{\sigma y}{h} = \frac{1}{h} \frac{\xi y^2 - \hat{y}^2}{2} = 0.708$
2	FOR EDUCATIONAL USE

Intuprodución, No (o-relation.

62] catalate Kall parron's co-efficient of Formel whon between scandy.

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2				FO	R EDUCA	TIONAL USE	J-10 7	2/1				

(ompute the Rank cornelation co-efficient for fundata.

65 is repealed 2 times in m1 = 2 68 is repeated 4 Hines: m2=4

$$R = 1 - 6 \left[\frac{50^2 + \frac{1}{12} (m1^3 - m1) + \frac{1}{12} (m2^3 - m2)}{N^3 - N} \right]$$

$$R = 1 - 6 \left[\frac{15 \cdot 5 + 0 \cdot 5 - + 5}{509} \right]$$

$$R = 0.75$$



Q5] It Ps given that the means of sc 8 9 are 5 & 10. If the line regression of yon x i's paralled to the line 20y = 9x+40 Estimate value of y for JC = 30. Line of regression of y on x is y-y = byre(x-ri) It's slope is byoc. But 20y = 97c+40 y = 9 oct 2 whose slope is 9 from data; x=5. & y=10 Hence, the Egn of the Line of regression of yon x is y-10= 9 (x-5) y= 9 (x) + 155/20 when oc = 30 1 9 = 270/20+155/20 = 2102 06] find the lines of regression for following duta. x: 65 66 67 67 68 69 70 72 Y: 67 68 65 66 72 72 69 71

2

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y2 x2 XY 4 X : (nos 4489 4 225 4355 4624 65 4356 .67 4488 4225 66 68 4489 4 355 4356 4489 67 65 5784 4422 66 67 4 6 24 5184 4896 72 68 47 61 4761 4968 72 69 4900 5041 4830 69 J.D 5184 5712 72 2y2=37864 £2c= 544 £y=550 £2cy=37426 £2c2=37028 Regression of acony. DC = 9+64 Esc= na+ 864 S44 = 89 + 5506 → D £20cy ≠ 9 &y + b &y 2 3746 = 550Q + 37864 b Solve D& 2 oc = 33.291 + 0.50484 Regression line of you oc y = 9 + b)c ¿y = ha+ b &>c 550 = 8a + 544b -3 3) Ency = 9 876 + 6 8762

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37	426	2	5449	+	3	7	02	8	6	->	4)
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Solving (3) & (4)

d=14.638 P=0.15

y = 19.638 + 0.727c

co-efficient of correlation is given by

~ =] bxy. 647C

5xy = 5xy = 37426 = 0.9884

69x = 8xcy = 37426 = 1.0107

x= 10.9884 × 1.0101 = 0.89

- + -x X

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