1.2) Measuring correlation

Worked	example	Your turn							
Calculate the production coefficient data:		data:	uct moment ient for the following $\overline{x \ y}$ 1 3 2 6 3 5 4 8 0.868 (3 sf)						

Worked example								Your turn													
From the large data set, the daily mean temperature, $t {}^{\circ}C$, and the daily total rainfall, $r mm$, were recorded from 27 th May to 5 th June inclusive 1987 in Leuchars.						k	From the large data set, the daily mean windspeed, w knots, and the daily maximum gust, g knots, were recorded for the first 10 days in September in Hurn in 1987.														
Day 1 2 3 4 5 6 7 8 9 10								Day	1	2	3	4	5	6	7	8	9	10			
t 8.	9. 0	10.3	12.8	13.5	12.8	9. 8	8.8	10.0	10.4		w	4	4	8	7	12	12	3	4	7	10
r 0	2.4	8.1	0.2	0.4	tr	6.1	3.6	tr	31.8		g	13	12	19	23	33	37	10	n/a	n/a	23
b) Calcul for the 'tr' rea c) With r	 a) State the meaning of tr in the table above. b) Calculate the product moment correlation coefficient for the ten days, stating clearly how you deal with the 'tr' readings. c) With reference to your answer to part b, comment on the suitability of a linear regression model for these 										b) C f(c) W th d d f(c) a) D f(c) 1 c) 1 c) a d d d d d f(c) a d d d	alcul or the Vith r ne su ata. Oata or th c is c orre nd c ata	ate the rem refere nitabil on d nese 0.953 lose latio laily n point	ne pro ainin ince t ity of aily 1 days 33 (2 to 1 n be maxi ts lie	oduc g 8 c co yo a lin maxi so t twe imur clos	t mor lays. ur an: ear re imun imun :here en da n gu se to	ment swer egress n gus e is st aily n st. Th a str	to pai sion n st is r rong nean his m	latior rt b, c nodel not a g posi wind leans t line	n coef comm I for t vaila itive dspe	ble ed t the