We know that Mw=150, ow=30, r=0.8 Ma = 0.8, Oa = 0.1 a. Given W= 170, Find a (assuming a=rs) a - 1 = ( W - 1 w)  $\Rightarrow \alpha^{P} = r\sigma_{\alpha}(\nu_{0} - \nu_{w}) + \nu_{\alpha}$ So, a ≈ 0.86 b. Using the same procedure as above, but with  $\hat{\omega} = r\hat{a}$ , we find that  $\omega_{o}^{p} \approx 136.5$ c. I expect it to be very reliable as the correlation exerticient is large at 0,2, which is greater than the 0.5 standard. 4.2 We know that u= \$60,000, 0= =\$20,000 M= 100, 0== 15, r=0.3 a. Using  $I_0 = $70,000$ , And  $Q_0^{\circ}$  (examing that that  $\hat{f} = r\hat{J}$ )  $\frac{Q}{\sqrt{E_0}} = \frac{1}{\sqrt{E_0}} = \frac{1}{\sqrt{E_0}} = \frac{10225}{\sqrt{E_0}}$ (continued)

4.2	b. Fairly unreliable, since the correlation
	coefficient is 0.3, a relatively
	low value when compared to the stended 0.5.
	C. Assuming that the rise is speaking
	about a new, distinct family in
	the same sample set with a relatively
	brace family income that then a previous
	femily, then yes the correlation is positive
	so a higher femily income would indicate
	a higher Ia prediction. But it is
	important to assess remember that
	correlation doen't mean consistion.
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