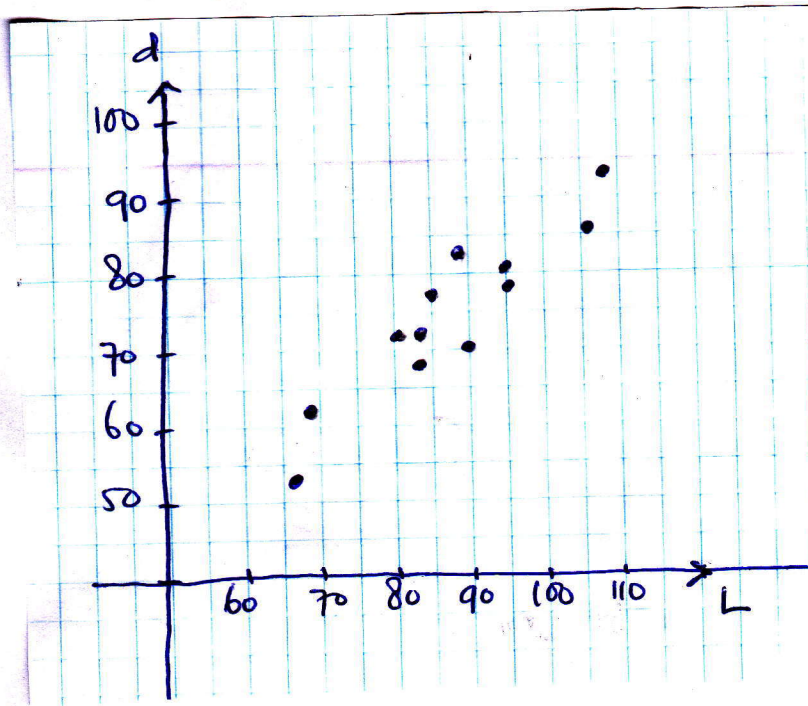


Regressie Analyse

102 (a)



(b) $y = \alpha + \beta x$

$$y = 3.61 + 0.808x$$

$$a = \bar{y} - b\bar{x}$$

$$= 74.25 - 0.808(87.42) = 3.61$$

$$b = \frac{\sum x_i y_i - (\sum x_i)(\sum y_i) \frac{1}{n}}{\sum x_i^2 - \frac{1}{n}(\sum x_i)^2} = \frac{1466.75}{1814.92} = 0.808$$

(c) $r_{xy} = \frac{1466.75}{(42.602)(36.72)} = 0.938$

103 @ Eerst $y = \alpha + \beta x$ berekenen

$$a = -2.548$$

$$b = 0.5114$$

$$y = -2.548 + 0.5114x$$

Als $x = 55$ dan is $y = \$ 25.57$ volgens onze regressielijn.

(b) $r_{xy} = 0.81$

107 @ Regressielijn : $y = \frac{1}{2}x + 4$

$$a = 4$$

$$b = \frac{1}{2}$$

(b) $KS_{\text{tot}} = 24.5$

$$KS_{\text{regr}} = 7.5$$

$$KS_{\text{res}} = 17$$