

Consider the expansion of $(x + 3)^{10}$.

3 7

(a) Write down the number of terms in this expansion.

(b) Find the term containing x^3 .

$$(b) \binom{10}{7} \cdot x^3 \cdot \underline{3^3} = 262440 x^3$$

3. [Maximum mark: 7]

The following table shows the average weights (y kg) for given heights (x cm) in a population of men.

Heights (x cm)	165	170	175	180	185
Weights (y kg)	67.8	70.0	72.7	75.5	77.2

(a) The relationship between the variables is modelled by the regression equation $y = ax + b$.

(i) Write down the value of a and of b .

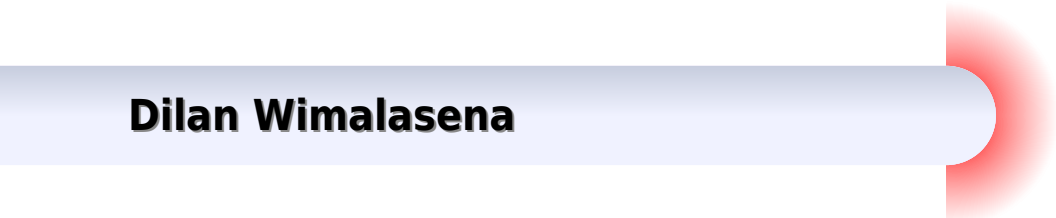
(ii) Hence, estimate the weight of a man whose height is 172 cm.

$$(a) (i) a = 0.486$$

$$b = -12.41$$

Math Ib Sl 2014 Paper Tz1

Dilan Wimalasena



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Standard Level Course Book Paul La Rondie, Ed Kemp, Laurie Buchanan, Jim Fensom, Jill Stevens, 2012-07-12 With more practice than any other resource unrivalled guidance straight from the IB and the most comprehensive and correct syllabus coverage this student book will set your learners up to excel The only resource developed with the IB curriculum team it fully captures the IB philosophy and integrates the most in depth assessment support

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