

ERRATA
MATHEMATICS FOR THE INTERNATIONAL STUDENT
MATHEMATICAL STUDIES SL
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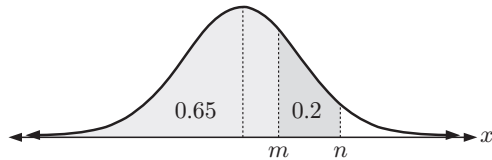
The following errata were made on 25/Oct/2019

page 30 **TOPIC 4 - STATISTICAL APPLICATIONS** short question **2**, should read:

- 2** Consider the continuous random variable $X \sim N(44, 20)$.
Suppose $P(X \leq m) = 0.65$ and $P(m \leq X \leq n) = 0.2$.
Find $n - m$.

page 86 **SOLUTIONS TO TOPIC 4 - STATISTICAL APPLICATIONS** short question **2**, should read:

2



Using inverse normals:

$$P(X \leq m) = 0.65$$

$$\therefore m \approx 45.723$$

$$P(X \leq n) = 0.65 + 0.2 = 0.85$$

$$\therefore n \approx 48.635$$

$$\therefore n - m \approx 2.91$$