**CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**Cambridge International General Certificate of Secondary Education**

# MARK SCHEME for the October/November 2015 series

# 0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

**0607/52** Paper 5 (Core), maximum raw mark 24

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Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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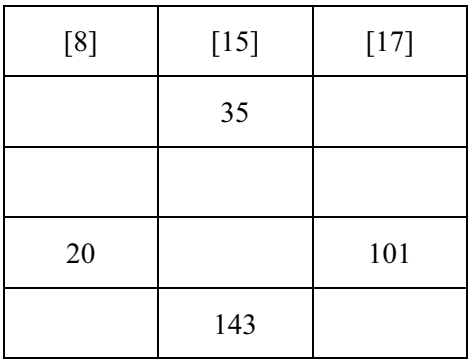
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**Abbreviations**

cao correct answer only
dep dependent
FT follow through after error
isw ignore subsequent working
oe or equivalent
SC Special Case
nfww not from wrong working
soi seen or implied

| Question | Answer | Mark | Part Marks |
|---|---|---|---|
| **1 (a)** | 13 17 | **1** | |
| **(b)** | $13 = 2^2 + 3^2$ | **1** | |
| | $17 = 1^2 + 4^2$ | **1** | |
| **(c)** | $1^2 + 10^2$ | **1** | |
| **2 (a)** | $49 + 576 = 625$ oe | **2** | **B1** for two correct squares |
| **(b)** |  | **4** | **B1** for 15<br>**B2** for second column (one for each cell)<br>**B1** for third column |
| **(c)** | equal to the sum oe | **1** | **C** opportunity |
| **(d)** | 29, 420 | **1** | **C** opportunity |
| **3 (a) (i)** | 8, 15, 17 | **1** | |
| **(ii)** | $64 + 225 = 289$ oe | **2** | **B1** for one correct square |
| **(b)** |  | **5** | **B2** for one correct cell<br>**B1** for each of the other three<br>**C** opportunity |
| **(c)** | The square is twice the sum oe | **1** | |

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| Question | Answer | Mark | Part Marks |
|---|---|---|---|
| **(d)** | $(2\sqrt{x})^2 = 4x$<br><br>$x - 1 + x + 1 = 2x$ | **2** | **B1** for one statement seen or implied. |
| Communication seen in one of **2(c)**, **2(d)** or **3(b)** | | **1** | |

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