**Task 32 – Patio**

**Information about the task**

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| **Question** | **Level of difficulty** | **National curriculum mathematical context** | **Text type** | **Question types** |
| 32. Patio | Trial:  Low (Q32.1) | Shape, understand and use measures, area, understand number and notation, calculate in a variety of ways. | Short continuous text containing mathematical data. | Short answer calculation. |

**Skills assessed by the task**

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| **Thinking skills** | **Literacy & communication skills** |
| **Plan**   * Asking questions * Activating prior skills, knowledge and understanding * Gathering information * Determining the process/method and strategy * Determining success criteria   **Develop**   * Generating and developing ideas * Valuing errors and unexpected outcomes * Thinking logically and seeking patterns * Considering evidence, information and ideas   **Reflect**   * Reviewing outcomes and success criteria * Reviewing the process/method * Evaluate own learning and thinking * Linking and lateral thinking | **Reading**   * Locating, selecting and using information using reading strategies * Responding to what has been read   **Writing**   * Organising ideas and information   **Wider communication skills**   * Communicating information |
| **Numeracy Skills** |
| **Using mathematical information**   * Using numbers * Gathering information   **Calculate**   * Using the number system * Using a variety of methods   **Interpret & present findings**   * Recording and interpreting data and presenting findings |

**Scoring**

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| PATIO scoring 32.1  Full credit: 1275, 1276 or 1275.75 (unit not required).  *•* 5.25 X 3 = 15.75 X 81 = 1276  Partial credit:  15.75 (units not required)  OR  1215 bricks for 5m X 3m  (This score is used for students who are able to calculate the number of bricks for an integer number of square metres, but not for fractions of square metres. See example response.)  OR  Error in calculating the area, but multiplied by 81 correctly  OR  Rounded off the area and then multiplied by 81 correctly  *•* 5.25 X 3 = 15.75  *•* 15.75 X 81 = 9000  *•* 81 X 15 = 1215; 1215 + 21 = 1236  *•* 5.25 X 3.0 = 15.75 m2; so 15.75 X 1275.75 = 1376 bricks.  *(Here the student got the first part right, but the second part wrong. Give credit for the first part and ignore the second part. So score as 1)*  No credit: Other responses and missing.  To answer the question correctly students have to draw on skills from the connections competency cluster. |