| Seeds |  |
| :--- | :--- |
| Problem <br> wording | A farmer is going to plant potato seeds in his field. <br> The first day he plants three seeds in a straight line, spaced at <br> 1 metre from one to the next (as in the figure on the right). <br> On the second day he plants three more seeds in a line parallel <br> to and 1 metre away from the one he planted the day before, <br> with the seeds again at 1 metre from one another. |
|  | 1m |


|  | b) What is the sum of the orders of all the seeds? |
| :--- | :--- |
| Purpose | - To identify regularities. <br> - To recognise geometric properties. <br> - To generalise and express functional relationships. <br> - To detect characteristics associated with mathematical talent. |
| Suggestions <br> for classroom <br> delivery | The questions should be posed gradually. <br> Students should answer each question individually and then discuss <br> it with classmates in breakout groups. |
|  | Students should discuss the possible existence of squares supported <br> on one of the vertices. <br> Based on specific examples, students should identify the functional <br> relationship between number of days and number of squares. <br> They should relate the sum of orders to the number of squares. <br> Students should be encouraged to express the functional relationship <br> preferably using $n$ to refer to any number of days. |

