**Space Invaders – The Next Generation**

Game makers are revamping the classic arcade game "Space Invaders, only this time whenever you shoot all the enemy on a level, the next level has 10 times more!

 The start of the game randomises the numbers of “invaders” you have to battle. For each different game the player wrote down some of the details, but not all.

*Copy and complete the missing values in the table below.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Game Number** | **Level 1** | **Level 2** | **Level 3** | **Level 4** | **Level 5** |
| 1 | 3 | 30 | 300 | 3000 | 30000 |
| 2 | 5 | 50 | 500 | 5000 | 50000 |
| 3 | 12 | 120 | 1200 | 12000 | 120000 |
| 4 | 23 | 230 | 2300 | 23000 | 230000 |
| 5 | 7 | 70 | 700 | 7000 | 70000 |

On which level will the number of “invaders” be larger than a million on Game 5? Level 7

Another designer is testing a version where parts of the “invaders” can attack.

*Copy and complete the table below.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Game Number** | **Level 1** | **Level 2** | **Level 3** | **Level 4** | **Level 5** |
| 1 | 1.5 | 15 | 150 | 1500 | 15000 |
| 2 | 2.3 | 23 | 230 | 2300 | 23000 |
| 3 | 1.08 | 10.8 | 108 | 1080 | 10800 |
| 4 | 3.156 | 31.56 | 315.6 | 3156 | 31560 |
| 5 | 0.0241 | 0.241 | 2.41 | 24.1 | 241 |

On which level will the number of “invaders” be larger than a million on Game 5? Level 9

  