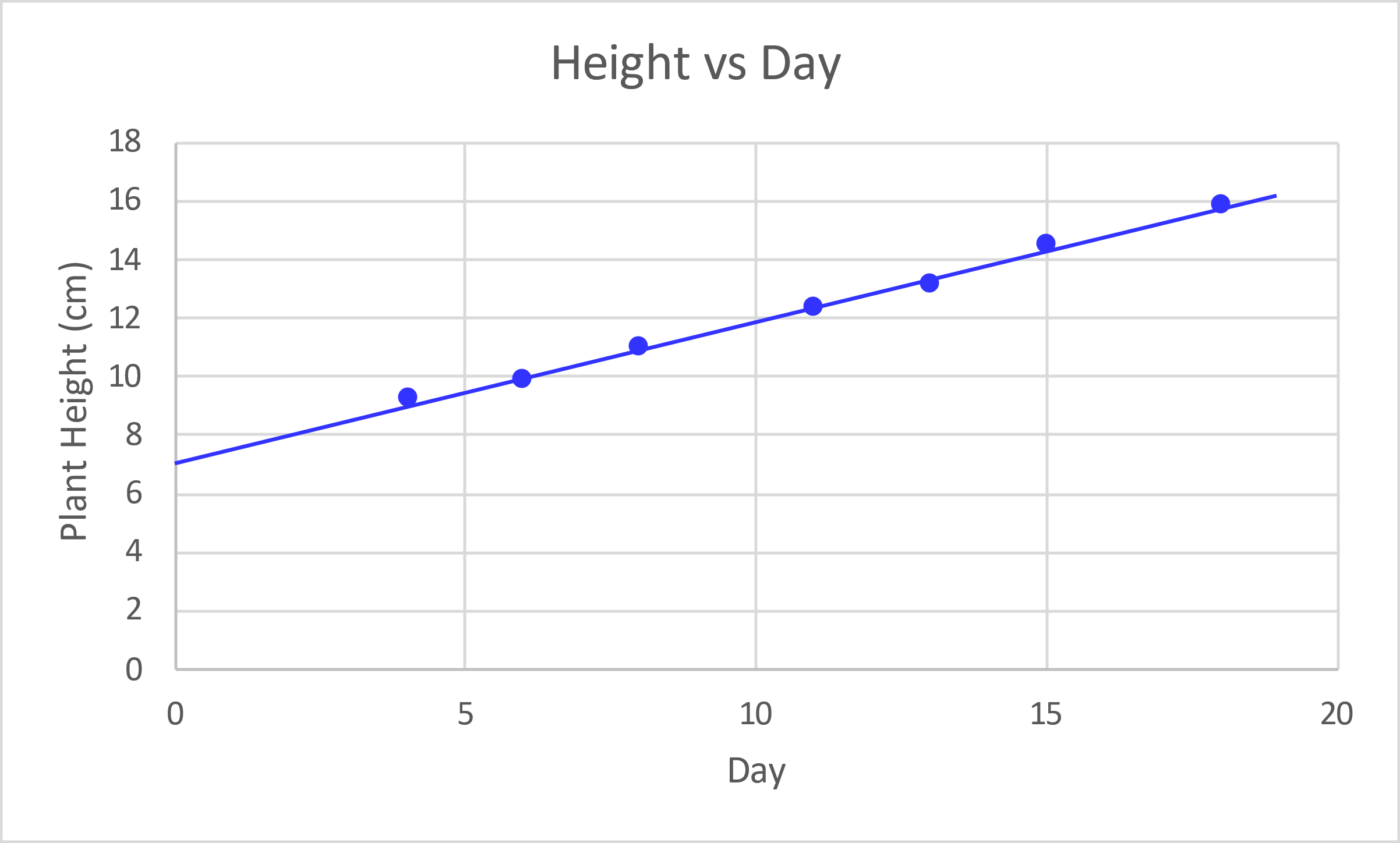
**Linear Approximation Entrance Ticket**

The data in the table below shows how the height of a plant changed over time.



|  |  |
| --- | --- |
| **Day** | **Height (cm)** |
| 4 | 9.2 |
| 6 | 9.9 |
| 8 | 11 |
| 11 | 12.3 |
| 13 | 13.1 |
| 15 | 14.5 |
| 18 | 15.8 |

Find the equation of a line that you think best follows the data. Show your work or include a justification of the values for your equation.

Use your equation to determine how tall the plant will be after 25 days? Show work.