Investigating shadow lengths

Viola, Sophie and Shruti like to sit on a bench under a palm tree during school breaks.

The girls measured the length of the shadow cast by the palm tree at different times of the day.
Here are their results:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Time of day** | 10:00 | 12:00 | 14:00 | 16:00 |
| **Length of shadow in cm** | 100 | 20 | 110 | 210 |

1 Record the results as a dot-to-dot graph.

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2 Complete these sentences to describe the pattern in the results.

In the morning the shadow became \_\_\_\_\_\_\_\_\_\_. After midday the shadow became \_\_\_\_\_\_\_\_\_\_.

Help sheet

Use the axes below to help you draw the graph.

Give the graph a suitable title.



 Rate your skills at drawing a dot-to-dot graph.

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| **How well can I:** | **Very well****\*\*\*** | **Most of the time****\*\*** | **Not confident yet** **\*** |
| decide what to put on each axis? |  |  |  |
| label the axes correctly? |  |  |  |
| decide on suitable scales on the axes? |  |  |  |
| draw the dots accurately? |  |  |  |
| join the dots neatly? |  |  |  |
| give the graph a suitable title? |  |  |  |