

9Aa ENVIRONMENTAL VARIATION

SB

1 Describe two physical environmental factors in your environment at this moment.

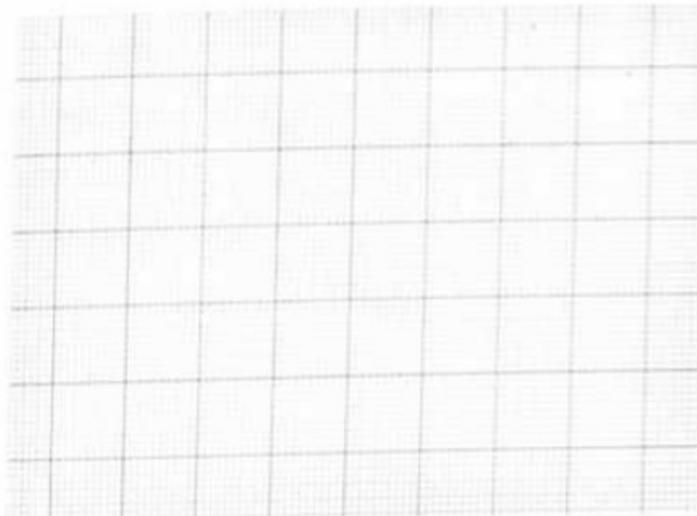
Light, temperature, humidity, wind

2 The masses of 30 potatoes were measured and are shown in the box. All the potatoes were from the same variety of potato plant.

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 101 | 140 | 142 | 119 | 155 | 166 | 149 | 156 | 129 | 138 | 172 | 186 | 141 | 154 | 112 |
| 165 | 78 | 174 | 138 | 170 | 125 | 121 | 143 | 157 | 147 | 130 | 150 | 185 | 128 | 102 |

a Complete the tally chart to show the number of potatoes in each mass range.

b Show the numbers of potatoes in each mass range on a bar chart.



| Mass range (g) | Tally | Number of potatoes |
|----------------|-------|--------------------|
| 100–119 | | 3 |
| 120–139 | | 7 |
| 140–159 | | 12 |
| 160–179 | | 6 |
| 180–199 | | 2 |

c Share your bar chart with others in your group. Write down one way you could improve your bar chart.

d Suggest how the variation could have been caused. **amount of water, amount of**

mineral salts, amount of light the parent plants received.

e Give the reason that this is an example of continuous variation.

The results can be any number between two points.