**Frequency Polygons**

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| Name : | Class : | Date : |

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| **1)** The table shows the weights in kg of fish. Draw a frequency polygon to represent this data.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| http://www.mathster.com/course/simgs/19089325879_1.png |   |

|  |  |
| --- | --- |
| Weight (kg) | Frequency |
| 0  $\leq $ h  $<$ 4 | 4 |
| 4  $\leq $ h  $<$ 8 | 11 |
| 8  $\leq $ h  $<$ 12 | 24 |
| 12  $\leq $ h  $<$ 16 | 22 |
| 16  $\leq $ h  $<$ 20 | 19 |
| 20  $\leq $ h  $<$ 24 | 8 |

 |

      | [1]   |
| **2)** The table shows the heights in metres of trees in a park. Draw a frequency polygon to represent this data.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| http://www.mathster.com/course/simgs/19089325879_2.png |   |

|  |  |
| --- | --- |
| Height (m) | Frequency |
| 5 - 15 | 5 |
| 16 - 26 | 13 |
| 27 - 37 | 21 |
| 38 - 48 | 27 |
| 49 - 59 | 19 |
| 60 - 70 | 4 |

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      | [1]   |
| **3)** The table shows the heights in metres of trees in a park. Draw a frequency polygon to represent this data and find the modal class interval.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| http://www.mathster.com/course/simgs/19089325879_3.png |   |

|  |  |
| --- | --- |
| Height (m) | Frequency |
| 10  $\leq $ h  $<$ 20 | 7 |
| 20  $\leq $ h  $<$ 30 | 17 |
| 30  $\leq $ h  $<$ 40 | 20 |
| 40  $\leq $ h  $<$ 50 | 26 |
| 50  $\leq $ h  $<$ 60 | 11 |
| 60  $\leq $ h  $<$ 70 | 9 |

 |

      | [1]   |
| **4)** The table shows the heights in metres of trees in a park. Draw a frequency polygon to represent this data.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| http://www.mathster.com/course/simgs/19089325879_4.png |   |

|  |  |
| --- | --- |
| Height (m) | Frequency |
| 5 - 15 | 3 |
| 16 - 26 | 18 |
| 27 - 37 | 21 |
| 38 - 48 | 28 |
| 49 - 59 | 11 |
| 60 - 70 | 4 |

 |

      | [1]   |

**Solutions for the assessment Frequency Polygons**

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| **1)** http://www.mathster.com/course/simgs/19089325879_5.png |
| **2)** http://www.mathster.com/course/simgs/19089325879_6.png |
| **3)** http://www.mathster.com/course/simgs/19089325879_7.pngThe modal class interval is 40  $\leq $ h  $<$ 50 |
| **4)** http://www.mathster.com/course/simgs/19089325879_8.pngThe modal class interval is 38 - 48 |