**Histograms**

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| Name : | Class : | Date : |

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| **1)** The table below shows the heights of 20 people. Complete the table to show the frequency densities, rounding your answer to 1 decimal place.   |  |  |  | | --- | --- | --- | | Height | Frequency | Frequency Density | | 140   h   145 | 3 |  | | 145   h   160 | 14 |  | | 160   h   170 | 4 |  | | 170   h   180 | 6 |  | | [1] |
| **2)** The histogram below shows the distribution of heights (cm) of 900 people. Complete the table to show the frequency density and frequency for each class.   |  |  |  | | --- | --- | --- | |  | | | | http://www.mathster.com/course/simgs/117472844000_1.png |  |  | |  | |  |  |  | | --- | --- | --- | | Height | Frequency Density | Frequency | | 140   h   145 |  |  | | 145   h   155 |  |  | | 155   h   165 |  |  | | 165   h   180 |  |  | | | [1] |
| **3)** The histogram below shows the distribution of weekly salary ($) of 1000 workers. Complete the table to show the frequency for each class.   |  |  |  | | --- | --- | --- | |  | | | | http://www.mathster.com/course/simgs/117472844000_2.png |  |  | |  | |  |  | | --- | --- | | Height | Frequency | | 140   h   150 |  | | 150   h   165 |  | | 165   h   170 |  | | 170   h   180 |  | | | [1] |
| **4)** The table below shows the height, in metres, of 800 trees. Use the table to fill in the missing bar in the histogram.   |  |  |  | | --- | --- | --- | |  | | | | http://www.mathster.com/course/simgs/117472844000_3.png |  |  | |  | |  |  | | --- | --- | | Height | Frequency | | 0   h   5 | 94 | | 5   h   15 | 214 | | 15   h   25 | 179 | | 25   h   40 | 313 | | | [1] |
| **5)** The table below shows the heights of 800 people. Calculate the frequency densities for each class and construct a histogram.   |  |  |  | | --- | --- | --- | | Height | Frequency | Frequency Density | | 140   h   150 | 212 |  | | 150   h   165 | 295 |  | | 165   h   170 | 101 |  | | 170   h   180 | 192 |  | | [1] |
| **6)** The histogram below shows the distribution of heights (cm) of 1000 people. Complete the table to show the frequency for each class.   |  |  |  | | --- | --- | --- | |  | | | | http://www.mathster.com/course/simgs/117472844000_4.png |  |  | |  | |  |  | | --- | --- | | Height | Frequency | | 140   h   145 |  | | 145   h   160 |  | | 160   h   170 |  | | 170   h   180 |  | | | [1] |
| **7)** The incomplete table and histogram give some information about weekly salary ($) of 700 workers. Use the information in the histogram to complete the table and hence find the value of the frequency density for the missing bar in the histogram.   |  |  |  | | --- | --- | --- | |  | | | | http://www.mathster.com/course/simgs/117472844000_5.png |  |  | |  | |  |  | | --- | --- | | Height | Frequency | | 140   h   145 | 170 | | 145   h   155 | 180 | | 155   h   165 |  | | 165   h   180 |  | | | [1] |

**Solutions for the assessment Histograms**

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| --- | --- |
| **1)** 0.6,0.9,0.4,0.6 | **2)** fd: 23,20,24,23 frequency: 117,200,244,339 |
| **3)** 236,378,125,261 |  |
| **4)** http://www.mathster.com/course/simgs/117472844000_6.png | |
| **5)** 21.2,19.7,20.2,19.2 http://www.mathster.com/course/simgs/117472844000_7.png | |
| **6)** 113,397,228,262 |  |
| **7)** Tables values are: 220, 130 Frequency density of missing bar is 34 http://www.mathster.com/course/simgs/117472844000_8.png | |