**2020 Olympics Data and Questions Answer Key**

Use the following information to help you create a dot plot and answer questions about the Women’s 800 Meter Freestyle swimming race during the 2020 Olympics.

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| **Place** | **Swimmer** | **Country** | **Time (seconds)** |
| Gold | Katie Ledecky | US | 8:12.57 |
| Silver | Ariarne Titmus | Australia | 8:13.83 |
| Bronze | Simona Quadrella | Italy | 8:18.35 |
| 4th | Katie Grimes | US | 8:19.38 |
| 5th | Jianjiahe Wang | China | 8:21.93 |
| 6th | Kiah Melverton | Australia | 8:22.25 |
| 7th | Sarah Kohler | Germany | 8:24.56 |
| 8th | Anastasiia Kirpictinikova | Russian Olympic Committee | 8:26.30 |

1. Use the provided space to create a dot plot of the data:
2. Determine the following measures of center and variability:
   1. Mean: 8:19.90
   2. Median: 8:20.66
   3. Mode: No mode
   4. Range: 13.73
3. Describe the shape of the distribution using at least 3 complete sentences. Consider how the data bunches together, if it skews to one side or the other, and how it looks on the graph itself.

Use the following information to help you create a dot plot and answer questions about the Men’s 50 Meter Freestyle swimming race during the 2020 Olympics.

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| **Place** | **Swimmer** | **Country** | **Time (seconds)** |
| Gold | Caleb Dressel | US | 21.07 |
| Silver | Florent Manaudou | France | 21.55 |
| Bronze | Bruno Fratus | Brazil | 21.57 |
| 4th | Michael Andrew | US | 21.60 |
| 5th | Kristian Gkolomeev | Greece | 21.72 |
| 6th | Benjamin Proud | Great Britain | 21.72 |
| 7th | Lorenzo Zazzeri | Italy | 21.78 |
| 8th | Thom de Boer | Netherlands | 21.79 |

1. Use the provided space to create a dot plot of the data:
2. Determine the following measures of center and variability:
   1. Mean: 21.60
   2. Median: 21.66
   3. Mode: 21.72
   4. Range: 0.72
3. Describe the shape of the distribution using at least 3 complete sentences. Consider how the data bunches together, if it skews to one side or the other, and how it looks on the graph itself.