**2.2.2** The median incomes of females in each state of the United States, including the District of Columbia and Puerto Rico, are given in table #2.2.10 ("Median income of," 2013). Create a frequency distribution, relative frequency distribution, and cumulative frequency distribution using 7 classes.

**Table #2.2.10: Data of Median Income for Females**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| $31,862  | $40,550  | $36,048  | $30,752  | $41,817  | $40,236  | $47,476  | $40,500  |
| $60,332  | $33,823  | $35,438  | $37,242  | $31,238  | $39,150  | $34,023  | $33,745  |
| $33,269  | $32,684  | $31,844  | $34,599  | $48,748  | $46,185  | $36,931  | $40,416  |
| $29,548  | $33,865  | $31,067  | $33,424  | $35,484  | $41,021  | $47,155  | $32,316  |
| $42,113  | $33,459  | $32,462  | $35,746  | $31,274  | $36,027  | $37,089  | $22,117  |
| $41,412  | $31,330  | $31,329  | $33,184  | $35,301  | $32,843  | $38,177  | $40,969  |
| $40,993  | $29,688  | $35,890  | $34,381  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Class Limits/Intervals** | **Class Boundaries** | **Class Midpoint** | **Relative frequency distribution** | **Cumulative frequency distribution**  |
|  |  |  |  |  |
|  |  |  |  |  |
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**2.2.6**

Create a histogram and relative frequency histogram for the data in table #2.2.10. Describe the shape and any findings you can from the graph.

**2.2.10**

Create an ogive for the data in table #2.2.10. Describe any findings you can from the graph.