1. **Normal Population (Men’s Heights)**

|  |  |
| --- | --- |
|  | What does this dotplot represent?  What does each dot in the dotplot represent?  Does a Normal model look reasonable for this shape? |

**Sampling Distributions for   (four different sample sizes)**

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Sample Size | Shape | Center | Spread |
| n = 5 |  |  |  |
| n = 10 |  |  |  |
| n = 25 |  |  |  |
| n = 50 |  |  |  |

1. **Non-Normal Population (Movie Budgets)**

|  |  |
| --- | --- |
|  | What does this dotplot represent?  What does each dot in the dotplot represent?  Does a Normal model look reasonable for this shape? |

**Sampling Distributions for   (four different sample sizes)**

|  |  |  |  |
| --- | --- | --- | --- |
|  | |  | |
|  | |  | |
|  | |  | |
|  | |  | |
|  | |  | |
|  |  |  |  |
| Sample Size | Shape | Center | Spread |
| n = 5 |  |  |  |
| n = 10 |  |  |  |
| n = 25 |  |  |  |
| n = 50 |  |  |  |

**In general, the sampling distribution of   can be modeled as**