

**Does the age at which a child begins to talk predict later score on a test of mental ability?** A study of the development of young children recorded the age in months at which each of 21 children spoke their first word and their Gesell Adaptive Score, the result of an aptitude test taken much later. The data appear in the table below:

| Child | Age | Score | Child | Age | Score | Child | Age | Score |
|-------|-----|-------|-------|-----|-------|-------|-----|-------|
| 1     | 15  | 95    | 8     | 11  | 100   | 15    | 11  | 102   |
| 2     | 26  | 71    | 9     | 8   | 104   | 16    | 10  | 100   |
| 3     | 10  | 83    | 10    | 20  | 94    | 17    | 12  | 105   |
| 4     | 9   | 91    | 11    | 7   | 113   | 18    | 42  | 57    |
| 5     | 14  | 102   | 12    | 9   | 96    | 19    | 17  | 121   |
| 6     | 20  | 87    | 13    | 10  | 83    | 20    | 11  | 86    |
| 7     | 18  | 93    | 14    | 11  | 84    | 21    | 10  | 100   |

Perform a complete regression analysis. Include appropriate graphs and commentaries.