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Testing Difference in Mean Weight Gain Among 4 Different Diets. A study is developed to examine the effect of vitamin and milk supplements on infant weight gain.

- Diet A: a regular diet + the vitamin supplement
- Diet B: a regular diet + the special milk formula
- **Diet C:** control diet (no restrictions or special considerations)
- **Diet D:** a regular diet + the vitamin supplement + the special milk formula

Twenty infants are selected for the investigation and each is randomized to one of the four competing diet programs. Weight gains measured in pounds after 1 month on the assigned diet is listed in the table:

Diet A	Diet B	Diet C	Diet D
2	1.6	1.5	2.1
1.5	1.9	2	2.4
2.4	2.1	1.8	1.9
1.9	1.1	1.3	1.8
2.6	1.7	1.2	2.2

Test if there is a significance difference in the mean weight gains under the four different diets using a 5% significance level, i.e., α =0.05.

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