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Question 1

1. coding question
2. There have 21551 entries.
3. Average weight for Ideal group is 0.7028
4. Average price for Ideal group is 3457.5420

Question 2

1. Average price per carat for method A is 3919.6998.

Average price per carat for method B is 4919.4081.

1. Method A average price is lower.
2. Maximum price per carat is 17077.6699
3. Minimum price per carat is 1109.0909
4. Median price per carat is 3307.1429

Question 3

After we fixed color of diamonds as “D”and Clarity as “IF”in group “Ideal

The average price for method a is 9034.1765.

The average price for method b is 10665.95

Question 4

If we are using method b price in question 2 to calculate the price, the predict price is 501779. This is a big difference between the actual results, because we did not take color and clarity into consideration other factors that affect the price of diamonds.