**Lesson 4.7 HW – Interpreting the Correlation Coefficient &**

**Distinguishing between Correlation & Causation**

**#1-4 For each of the following scatter plots:**

* Describe the type of linear correlation between the two variables: strong positive, weak positive, strong negative, weak negative, or no correlation.
* State an approximate correlation coefficient (r-value).

 Correlation type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Correlation type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Approximate r-value: \_\_\_\_\_\_\_\_ Approximate r-value: \_\_\_\_\_\_\_\_

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 Correlation type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Correlation type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Approximate r-value: \_\_\_\_\_\_\_\_ Approximate r-value: \_\_\_\_\_\_\_\_

**#5-7 Use the situation and scatter plot below.**

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5. State the correlation type and approximate correlation coefficient (r-value).

Correlation type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Approximate r-value: \_\_\_\_\_\_\_\_

6. Describe any possible correlation between age and the number of cell phone apps.

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7. Is it likely that there is a causal relationship between the age of cell phone users and the number of cell phone apps used? Explain.

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