

Name the type of correlation you would expect from each pair of variables below. Justify your answer in a complete sentence. Also, if applicable, identify the independent and dependent variable.

Example. *The number of hours a candle has been burning & The height of the candle*

Type of Correlation Negative Justification As the number of hours a candle has been burning increases, the height of the candle decreases.

Independent Variable \_\_\_\_\_ Dependent Variable \_\_\_\_\_

1. *Speed of Car & Distance traveled to complete stop after brakes are applied*

Type of Correlation \_\_\_\_\_ Justification \_\_\_\_\_

Independent Variable \_\_\_\_\_ Dependent Variable \_\_\_\_\_

2. *The number of students present in class & The number of empty chairs*

Type of Correlation \_\_\_\_\_ Justification \_\_\_\_\_

Independent Variable \_\_\_\_\_ Dependent Variable \_\_\_\_\_

3. *Age (up to 12 years old) & Height*

Type of Correlation \_\_\_\_\_ Justification \_\_\_\_\_

Independent Variable \_\_\_\_\_ Dependent Variable \_\_\_\_\_

4. *Circumference of your Head & Your I.Q.*

Type of Correlation \_\_\_\_\_ Justification \_\_\_\_\_

Independent Variable \_\_\_\_\_ Dependent Variable \_\_\_\_\_

5. *Child's reading level between Pre-K thru 6<sup>th</sup> grade & Their shoe size*

Type of Correlation \_\_\_\_\_ Justification \_\_\_\_\_

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Independent Variable \_\_\_\_\_ Dependent Variable \_\_\_\_\_

6. *The distance a student lives from school & The time it takes them to get to school*

Type of Correlation \_\_\_\_\_ Justification \_\_\_\_\_

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Independent Variable \_\_\_\_\_ Dependent Variable \_\_\_\_\_

7. *The distance between the water level and top of tub & The time the water has been running*

Type of Correlation \_\_\_\_\_ Justification \_\_\_\_\_

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Independent Variable \_\_\_\_\_ Dependent Variable \_\_\_\_\_