



## ***It All Depends On...***

**Name** \_\_\_\_\_

Many outcomes in life depend on something. For example, the amount of money you make can depend on the number of hours you work. When one thing depends on another, we say these two things have a relationship, or form a **relation**. In a relation, one outcome is dependent on another. That dependent outcome is called the **Dependant variable**. The controlling variable, or the item we *can* choose to change, is known as the **Independent variable**. The following are a few statements that suggest a relationship of dependency. For each statement,

Underline the *Independent Variable* and write an X over it.

Circle the Dependent Variable and Write a Y in the circle.

- A. My heart rate at the end of one minute of doing jumping jacks depends on the number of jumping jacks I did in that minute.
- B. The distance I can walk in five minutes depends on my speed or walking rate.
- C. The time I can spend watching TV depends on the amount of time it takes me to do my homework.
- D. My test grade is a result of the amount of study time I spend.
- E. The number of fish I catch depends on the type of bait or lure I'm using.
- F. The amount of money I earn is a result of the number of hours I work.
- G. My being able to go with my friends depends on my getting my room cleaned.
- H. My opportunities in life are a result of the choices I make now.

In a round robin, have each person on your team make a relationship statement using the words, "depends on", or "is a result of". Write each statement in the space below. Identify the dependent and independent variables as you did in the statements above.

- 1.
- 2.
- 3.
- 4.