

Name: \_\_\_\_\_

## Independent and Dependent Variables

The **independent variable** determines the value of the **dependent variable**.  
In other words, the dependent variable "depends on" the independent variable.

**Example:** Linda burns 3.2 calories for every minute she spends walking her dog.  
*The number of calories Linda burns depends on the number of minutes she walks.*



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The amount of \_\_\_\_\_ depends on  
how many \_\_\_\_\_.

**Dependent variable:** \_\_\_\_\_

**Independent variable:** \_\_\_\_\_

2. Omar earns 2 points for each basket he makes during his basketball game.

**Dependent variable:** \_\_\_\_\_

**Independent variable:** \_\_\_\_\_

## Independent and Dependent Variables

3. Mia is tie-dyeing t-shirts for her upcoming soccer game. She knows that the more dye she uses, the more intense the color on her shirt will be.

**Dependent variable:** \_\_\_\_\_

**Independent variable:** \_\_\_\_\_



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5. 150 gallons of water can pump through a fire hose each minute.

**Dependent variable:** \_\_\_\_\_

**Independent variable:** \_\_\_\_\_

- 
6. Each load of laundry costs 6 quarters at the laundromat.

**Dependent variable:** \_\_\_\_\_

**Independent variable:** \_\_\_\_\_

## ANSWER KEY

### Independent and Dependent Variables

1. Keira earns \$11.50 for each hour she babysits.

The amount of \_\_\_\_\_ **money Keira makes** \_\_\_\_\_ depends on  
how many \_\_\_\_\_ **hours she babysits** \_\_\_\_\_.

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6. Each load of laundry costs 6 quarters at the laundromat.

**Dependent variable:** \_\_\_\_\_ **amount of quarters needed** \_\_\_\_\_

**Independent variable:** \_\_\_\_\_ **number of loads of laundry** \_\_\_\_\_