

Function Notation

Independent variable – represents the input of a function
Dependent variable – represents the output of a function

Identify the independent and dependent variable in each situation.

1. For each child on the merry-go-round, the owner makes \$3. The total amount of money changes based on the number of children on the ride.

Independent variable: _____ Dependent variable: _____

2. Erica's paycheck is determined by the number of hours she works.

Independent variable: _____ Dependent variable: _____

3. The cost of the MP3s purchased determines how many Kai will buy.

Independent variable: _____ Dependent variable: _____

4. The growth of the grass is a function of the daily amount of rainfall.

Independent variable: _____ Dependent variable: _____

5. A salesperson's commission depends on how many cars he or she sells.

Independent variable: _____ Dependent variable: _____

6. For every hour Cherise studies, her test score goes up 2 points.

Independent variable: _____ Dependent variable: _____

7. The cost of shipping a package is based on its weight.

Independent variable: _____ Dependent variable: _____

8. For every minute that the faucet is on, the water level in the bathtub rises 2 inches.

Independent variable: _____ Dependent variable: _____

Identify the independent and dependent variables. Write a rule in function notation for each situation.

9. Simon charges \$10 per hour for yard work.

Independent variable: _____ Dependent variable: _____

Rule: _____

10. Sharon can assemble 15 items each day.

Independent variable: _____ Dependent variable: _____

Rule: _____