

INDEPENDENT AND DEPENDENT VARIABLES

INDEPENDENT VARIABLES

- The independent variable is the _____ variable, or the _____.
- It can be represented by the _____ and is sometimes called the _____.

Ex: time, number of items

DEPENDENT VARIABLES

- The dependent variable is the _____ variable. It is dependent on the independent variable.
- It can be represented by the _____ and _____ based on the independent variable.

Ex: total cost (\$)

Read each situation below and determine which is the independent and dependent variable.

1. Jameson runs m miles and burns c number of calories.

Independent: _____

Dependent: _____

2. The more hours, h , Brady practices, the better his test grade, g , will be.

Independent: _____

Dependent: _____

3. Michael pays \$8.99 per month for his streaming subscription.

Independent: _____

Dependent: _____

4. A car travels 60 mph.

Independent: _____

Dependent: _____

5. Each slice of pizza costs \$6.00 at the football game.

Independent: _____

Dependent: _____

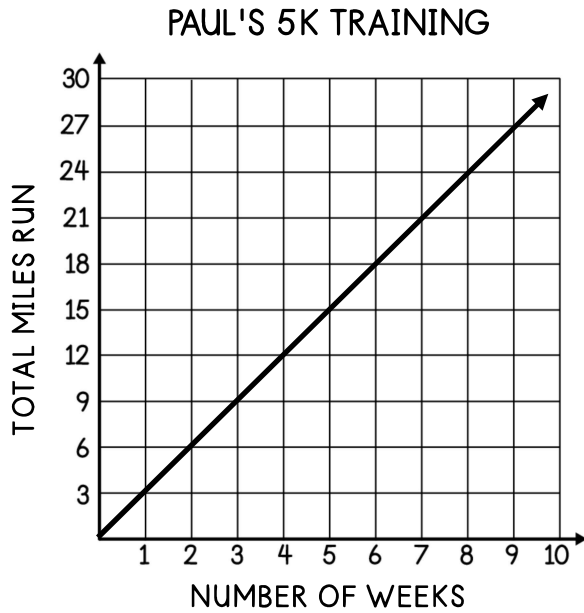
6. The later Jessie stays up at night, the sleepier she is at school.

Independent: _____

Dependent: _____

_____ and _____ can also display independent and dependent quantities.

7. Use the graph below to determine the independent and dependent quantities.



- What is the independent variable?
- What is the dependent variable?
- List the independent quantities:
- List the dependent quantities:
- Write an equation to represent Paul's 5K training.



For questions 8-9, record the independent and dependent variables from each table. Then, write an equation to represent the relationship between the variables.

8.

HOURS (H)	2	4	6	8
MILES (M)	130	260	390	520

Independent: _____

Dependent: _____

Equation: _____

9.

MONTHS (M)	1	2	3	4
TOTAL COST (C)	3.99	7.98	11.97	15.96

Independent: _____

Dependent: _____

Equation: _____

List the independent and dependent quantities from each table.

10.

# OF MINUTES (M)	TOTAL WORDS (W)
3	165
6	330
9	495
12	660

Independent: _____

Dependent: _____

11.

HOURS (H)	INCHES OF RAIN (R)
1	0.75
2	1.50
3	2.25
4	3.00

Independent: _____

Dependent: _____

12.

WEEKS (W)	TOTAL COST (C)
16	56
8	28
4	14
12	42

Independent: _____

Dependent: _____

Summarize today's lesson:

