

1. Maureen and Johnny cut grass to make some extra money. They charge \$20 for each lawn.
- a. Write an equation to represent the total amount of money they will earn based on the number of lawns they mow.

g = the number of lawns mowed

m = the total amount of money earned

$$m = 20g$$

- b. What are the independent and dependent quantities?

IQ = number of lawns mowed

DQ = total amount of money earned

2. Maureen and Johnny decide to add a service. They will pull weeds for \$5 per flower bed.
- a. Write an equation to represent the total amount of money they will earn based on the number of lawns they mow AND the number of flower beds weeded.

f = the number of flower beds weeded

$$m = 20g + 5f$$

- b. What are the independent and dependent quantities?

IQ = number of lawns mowed and the number of flower beds weeded

DQ = total amount of money earned

3. How do the number of independent and dependent quantities compare in problems 1 and 2?

The first problem had one dependent and one independent quantity.

The second problem had two independent quantities and one dependent quantity.