

- Attempt to answer these questions (when asked for examples use different examples from the ones given in class):

a- Give an example of two independent variables.

X: The number of pages in a book.

Y: The genre of the book (e.g., fiction, non-fiction, mystery).

These variables are independent because the number of pages in a book does not determine its genre, and the genre does not determine the number of pages.

b- Give an example of two dependent variables.

X: The number of words on a page.

Y: The total number of words in the book.

These variables are dependent because the total number of words in the book (Y) is directly influenced by the number of words on each page (X).