

TAKS Objective 1
TEK A.1C
Tutorial
(Grades 9, 10, and 11)

...describe functional relationships for given problem situations and write equations or inequalities to answer questions arising from the situations.

$$y = mx + b$$

is a linear relationship.

“m” is known as slope or rate of change.

“b” is known as the y-intercept or original amount.

Many problems on TAKS will include a rate of change and an original amount. If you can identify these, then you can plug them into the equation above.

Reminder: The independent quantity (or variable) goes in place of “x”.

KEY Words

“difference” implies “subtract”.

“less than” implies “subtract”.

“greater than” implies “add”.

“more than” implies “add”.

“is” implies “equal”.

“of” implies “multiply”.

KEY Words

“is less than” implies “ $<$ ”.

“is greater than” implies “ $>$ ”.

“at most” implies “ \leq ”.

“at least” implies “ \geq ”.

Hints

When given a percent and writing an equation, change it to a decimal by moving the decimal two places to the left.

If the amount is decreasing, use a “-” for the rate of change.

If the amount is increasing, use a “+” for the rate of change.