

CALCULATING RATE OF CHANGE FROM A TABLE OR SET OF POINTS

CFS:

1. Identify Independent (x-value) and dependent (y-value) variables correctly
2. Calculate Δx and Δy correctly
2. Calculate ROC/ Slope in context

A bookstore's retail sales at the end of 1996 were \$500,000. By the end of 2000 the retail sales had increased to \$600,000. Calculate the rate of change.

Kris' Loan Balance

Loan Balance, b	200
Number of Payments	1
	2
	3
	4
	5
	6

Calculate the rate of change.

The per-capita income of the rural population in Mississippi increased from \$22,657 in 2004 to \$22,983 in 2005. Calculate the rate of change.

Calculate the rate of change.

Delivery Service Charges

Miles Traveled	Charge
1	\$14.00
2	\$21.00
3	\$28.00
4	\$35.00

Vance is doing an experiment breeding fruit flies for his biology class. At 1 p.m., he counts 100 fruit flies in a box. At 4 p.m., there are 370 flies in the box. Calculate the rate of change.

Calculate the rate of change.

Weight (in pounds)	0.0	0.5	1.0	1.5
Length of Spring (in inches)	4.0	4.8	5.6	6.4