Algebra 1   4.5
Investigate relationships between quantities by using scatterplots
Use lines of fit to make and evaluate predictions

bivariate data
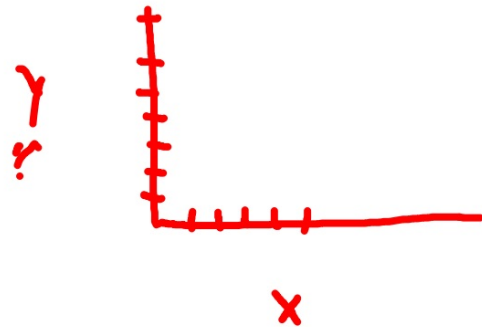line of fit (prediction equation)
independent variable (x)
Dependent variable (y)
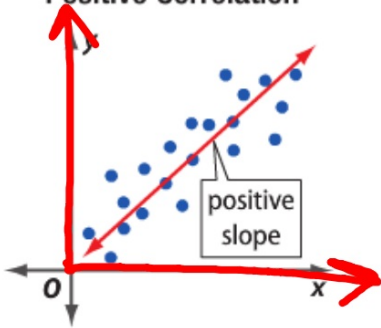interpolation
extrapolation
correlation

Activity: Ht vs wingspan
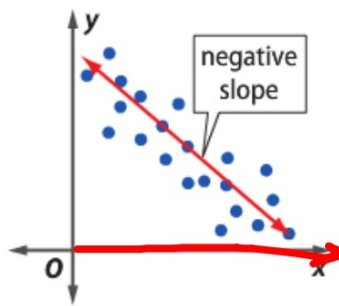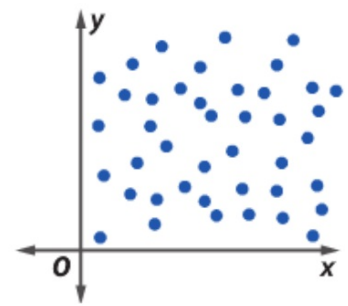
ConceptSummary Scatter Plots

Positive Correlation	Negative Correlation	No Correlation
positive slope	negative slope	
As *x* increases, *y* increases	As *x* decreases, *y* decreases	*x* and *y* are not related

Ht. vs. wingspan activ.

$(20, 9)$ $(100, 4)$

$$\frac{4-9}{100-20} = \frac{-5}{80} = -0.0625$$

$y = mx + B$

$9 = -0.0625(20) + B$

$9 = -1.25 + B$

$+1.25 \quad +1.25$

$10.25 = B$

$y = -0.0625x + 10.25$

$= -0.0625(50) + 10.25$

$-3.125 + 10.25$

7.125

p253 26-40 all
(Mon.)