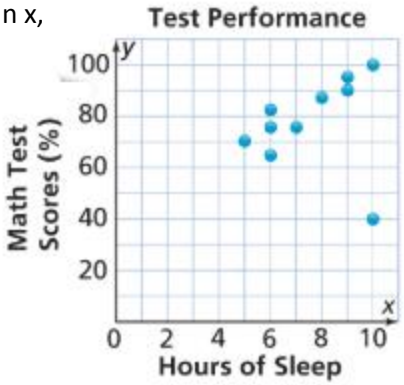
Warm-up Review Scatter Plots Name: _____

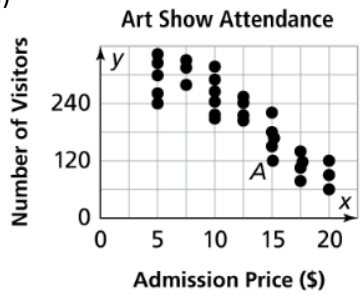
1) For the scatter plot to the right, circle a cluster, mark a gap with an x,

and state an outlier. _____



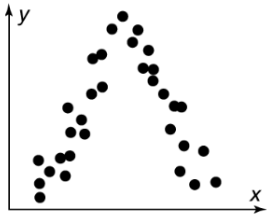
2) Circle whether each scatter plot has a linear, non-linear, or no association. If it has a linear association, you will circle either positive or negative AND strong or weak.

a)



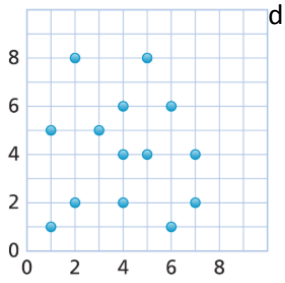
Linear, Non-linear, or No association IF linear: Negative or Positive Strong or Weak

b)



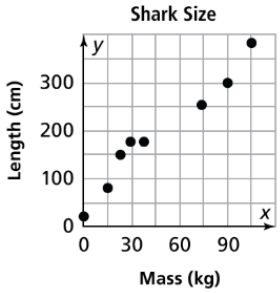
Linear, Non-linear, or No association IF linear: Negative or Positive Strong or Weak

c)



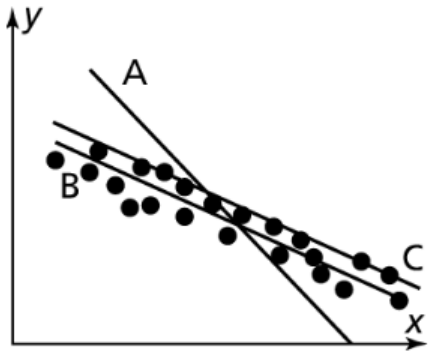
Linear, Non-linear, or No association IF linear: Negative or Positive Strong or Weak

d)

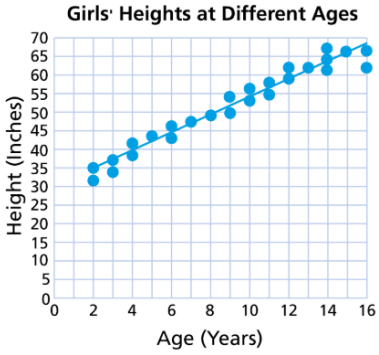


Linear, Non-linear, or No association IF linear: Negative or Positive Strong or Weak

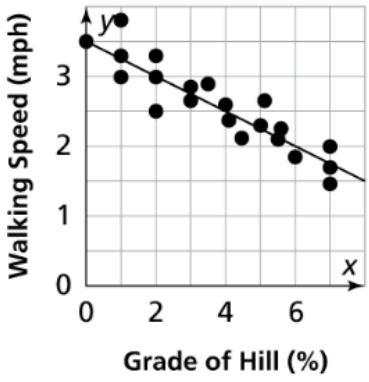
3) Which trend line is the best model of the data?



4) **Based on the equation of the linear model, if a girl's height is 56 inches, what is a reasonable prediction of her age?**



5) The grade of a hill is its steepness represented as a percent. Jin tracks his walking speed up different hills.



a) State two points on the trend line. _____ and _____

b) State the slope of the trend line. (Show your work below.) _____

c) State the y-intercept: _____

d) Write an equation for the trend line. _____

6) Andy made a scatter plot comparing minutes he played and points he scored in last season's basketball games. The equation of the trend line, rounded to the nearest tenth, is $y = 0.7x + 1.7$. Predict how many points Andy might have scored if he had played 20 minutes.

1. What is the given x-value that can be used to make the prediction?

2. Show the x-value substituted into the equation of the trend line. Then solve the equation and round the answer to the nearest whole number.

3. Predict how many points Andy might have scored if he played 12 minutes. Round the answer to the nearest whole number.