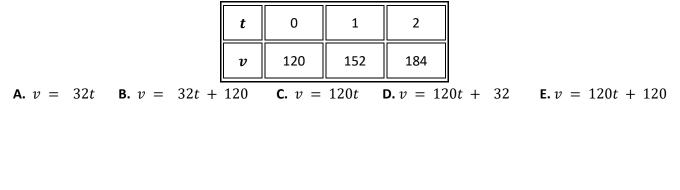
## 1.1 Modeling & Equation Solving

Review Target: Connecting Numeric, Algebraic, and Graphical Models

Review of Prior Concepts

Which of the following equations represents the linear relationship between time, t, and velocity, v, shown in the table below?



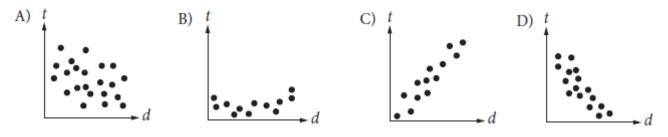
## SAT Connection

**Problem Solving and Data Analysis** 

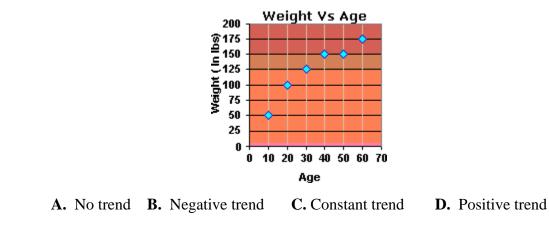
**4.** Given a scatterplot, use linear, quadratic, or exponential models to describe how the variables are related.

Example:

Which of the following graphs best shows a strong negative association between d and t?

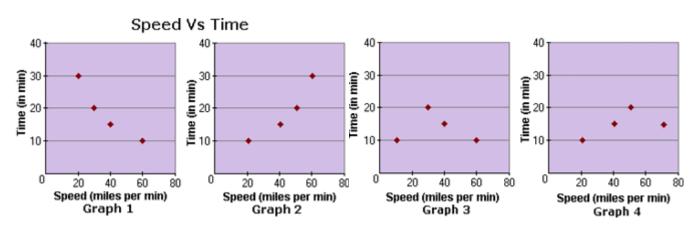


## **Graphical Models and Trends**



Example 1: What sort of trend is shown in the scatter plot?

*Example 2:* Which scatter plot shows the negative relationship between the times taken to reach City A from City B at different speeds?



**A.** Graph 3 **B.** Graph 1 **C.** Graph 4 **D.** Graph 2