



SCATTER PLOTS

Chapter 5
Section 4

SCATTER PLOTS

- **Scatter plot**: series of points on the same graph that compares data

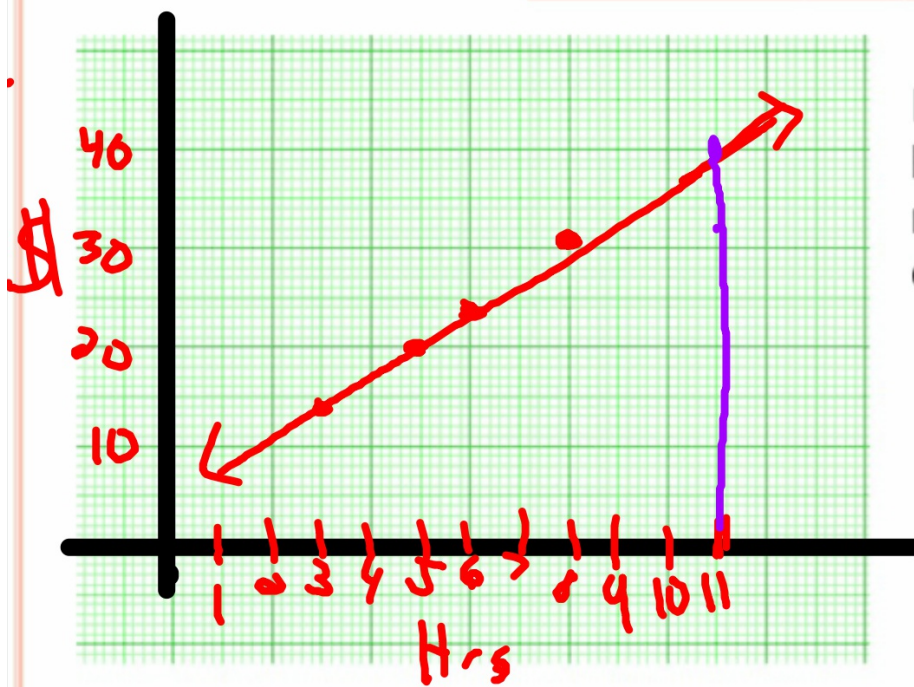
- **Steps to Draw a Scatter plot:**

- 1. Draw a coordinate plane (either a full version or an L-graph depending on the data).
- 2. Plot all the data points you are given
- 3. Plot a line of best fit- line through the data that cuts through the data so that there are the same amount of points above and below
- 4. Make predictions using your data



EXAMPLE

Hours	3	5	6	8
Rental Charge (dollars)	14	20	24	32



If you rent for 11 hours, about how much is the rental charge??

$$(5, 20)(6, 24)$$

$$m = \frac{24 - 20}{6 - 5} = \frac{4}{1} = 4$$

$$y = mx + b$$

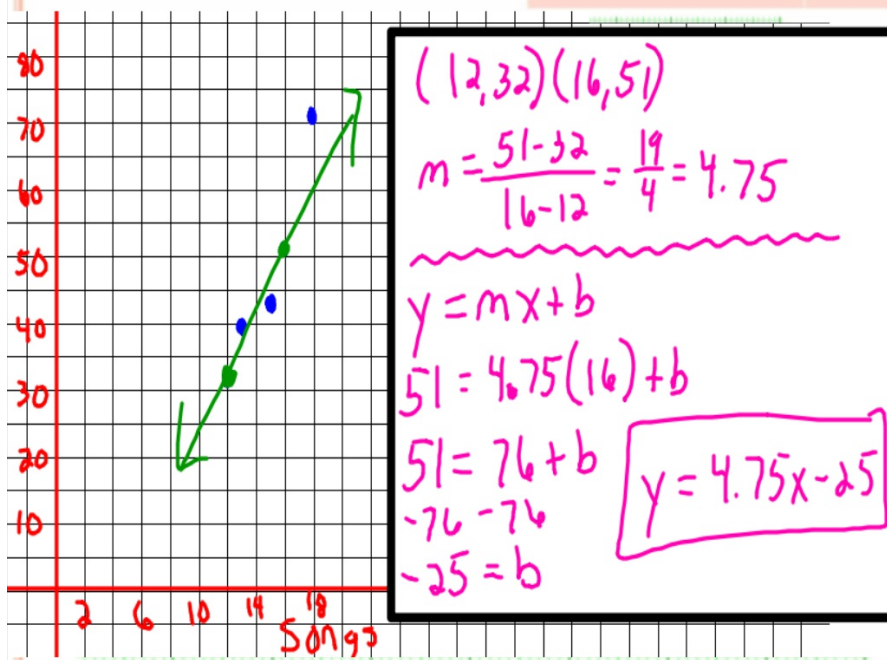
$$20 = 4 \cdot 5 + b$$

$$20 = 20 + b \quad b = 0$$

$$y = 4x$$

EXAMPLE

Number of Songs (s)	15	12	13	16	18
Number of Minutes (m)	44	32	40	51	72

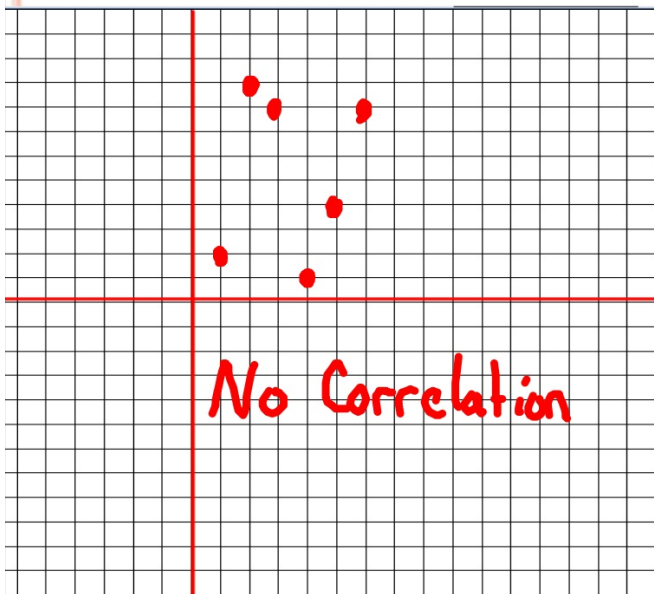


What is the relationship between the data?

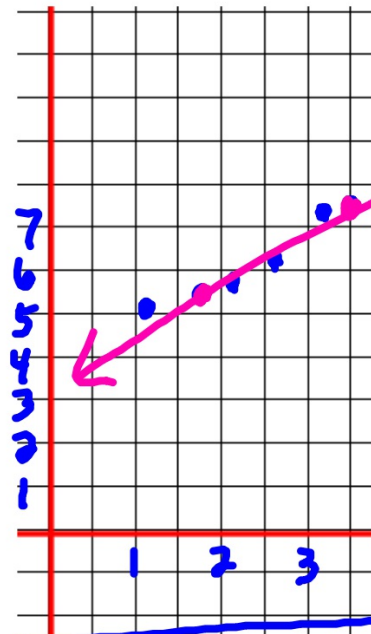
If there are 22 songs, about how many minutes will the CD be?

CLASS WORK

Pg 296 # 6-8



⑧



Positive Correlation

$$y = mx + b$$
$$5.5 = 1.17(1.7) + b$$
$$5.5 = 1.99 + b$$
$$3.51 = b$$

$$y = 1.17x + 3.51$$

(1.7, 5.5)

$$m = \frac{7.5 - 5.5}{3.0 - 1.7}$$

$$m = \frac{2.0}{1.3}$$

HOMEWORK

- Pg 296 # 7,9,17-22

