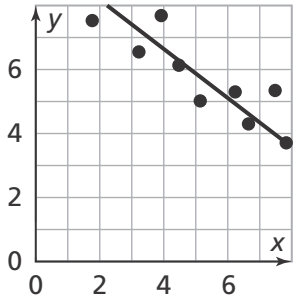
Name _____

Topic **4**
Assessment
Form B

1. What type of linear association does the scatter plot show?



Ⓐ Strong positive

Ⓑ Weak positive

Ⓒ Strong negative

Ⓓ Weak negative

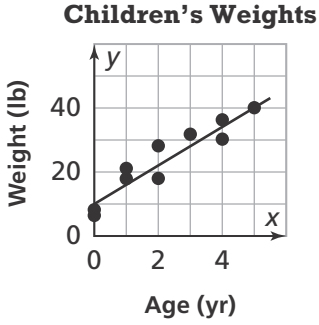
2. The two-way frequency table shows the number of stores in two different cities.

	City A	City B	Total
Restaurants	94	75	169
Retail	123	108	231
Total	217	183	400

Complete the column two-way relative frequency table.

	City A	City B	Total
Restaurants	43%	%	42%
Retail	%	59%	58%
Total	%	%	100%

3. An equation of the line of best fit shown in the scatter plot below is $y = 6.1x + 10$.



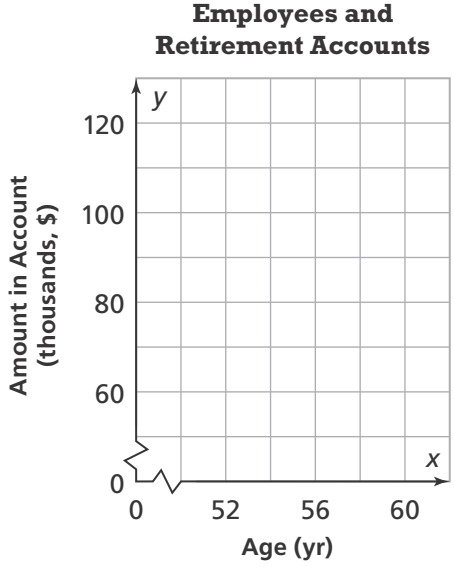
What is the meaning of 6.1 in this model?

What does 10 mean in this model?

4. The table below shows the ages of employees over 50 at a company and the amount of money they have in their retirement accounts.

Age	Amount in Account
52	$73,000
54	$81,000
53	$110,000
55	$122,000
58	$92,000

Use the data to construct a scatter plot.



5. In a survey, 135 adults were asked where they prefer to live.

Part A

Complete the two-way frequency table.

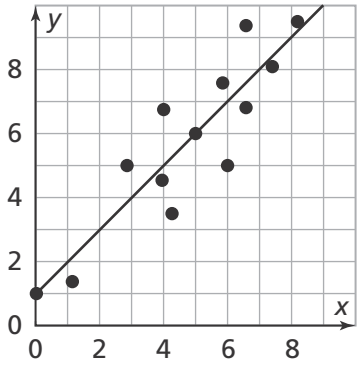
	Males	Females	Total
Country		23	73
City	42		62
Total			135

Part B

Select all the true statements about this two-way frequency table.

- ☐ More males than females were surveyed.
- ☐ More males want to live in the city than in the country.
- ☐ More females want to live in the country than in the city.
- ☐ More males want to live in the country than the total for city.

6. Select the appropriate linear equation for the trend line.



Ⓐ $y = x + 1$ Ⓒ $y = x - 1$

Ⓑ $y = -x - 1$ Ⓓ $y = -x + 1$