### Lesson 8 Practice Problems

1. Different stores across the country sell a book for different prices. The table shows the price of the book in dollars and the number of books sold at that price.

| * price in dollars
 | * number sold
 |
| --- | --- |
| * 11.25
 | * 53
 |
| * 10.50
 | * 60
 |
| * 12.10
 | * 30
 |
| * 8.45
 | * 81
 |
| * 9.25
 | * 70
 |
| * 9.75
 | * 80
 |
| * 7.25
 | * 120
 |
| * 12
 | * 37
 |
| * 9.99
 | * 130
 |
| * 7.99
 | * 100
 |
| * 8.75
 | * 90
 |

* 
	1. Draw a scatter plot of this data. Label the axes.
	2. Are there any outliers? Explain your reasoning.
	3. If there is a relationship between the variables, explain what it is.
	4. Remove any outliers, and draw a line that you think is a good fit for the data.
1. Here is a scatter plot:
* 
* Select **all** the following that describe the association in the scatter plot:
	1. Linear association
	2. Non-linear association
	3. Positive association
	4. Negative association
	5. No association
* (From Unit 6, Lesson 7.)
1. Using the data in the scatter plot, what can you tell about the slope of a good model?
* 
	1. The slope is positive.
	2. The slope is zero.
	3. The slope is negative.
	4. There is no association.
* (From Unit 6, Lesson 6.)



© CC BY Open Up Resources. Adaptations CC BY IM.