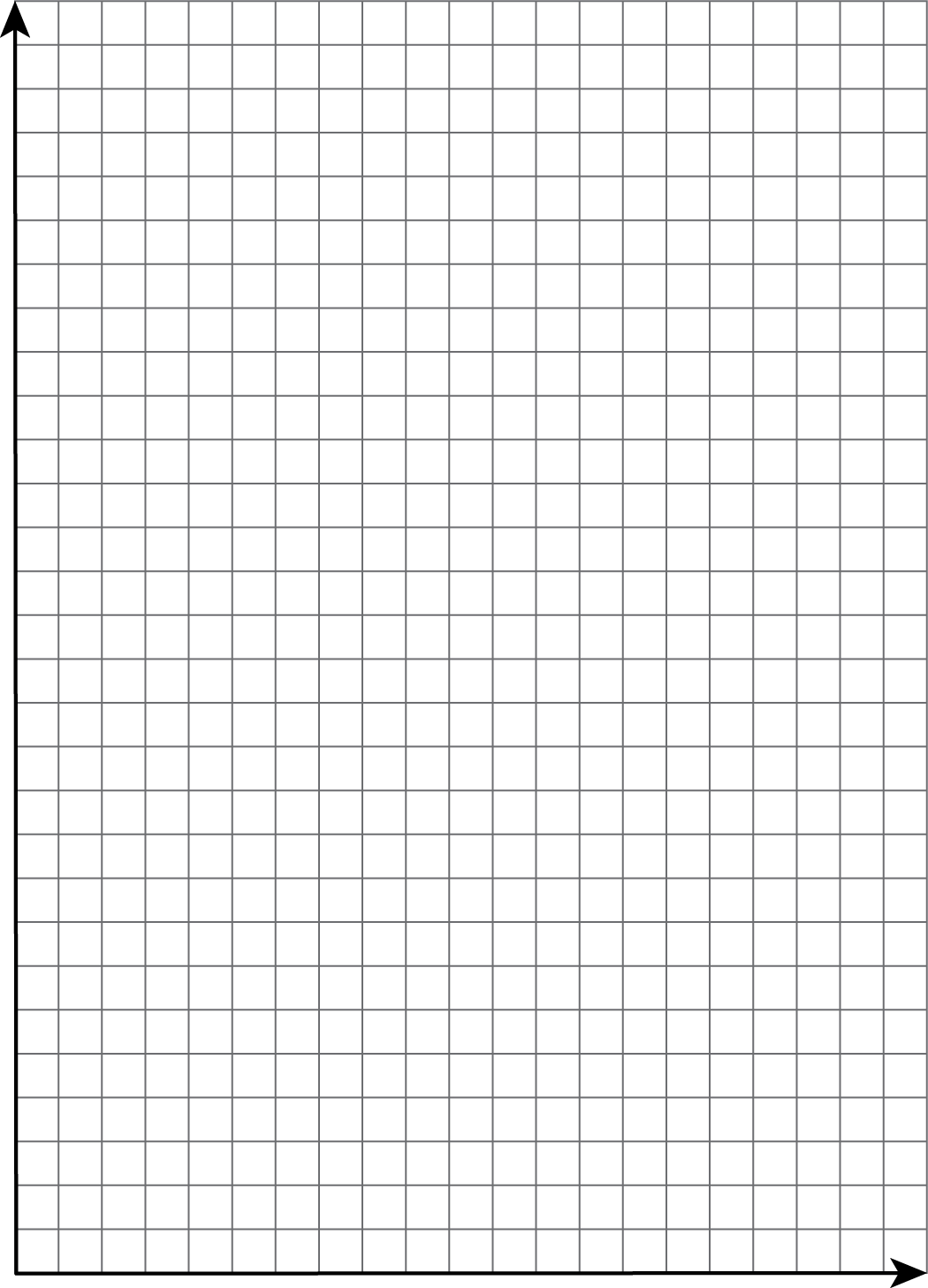
### Lesson 8 Practice Problems

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.

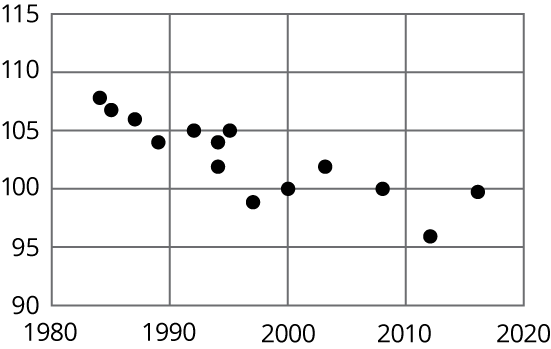
| * price in dollars | * number sold |
| --- | --- |
| * 11.25 | * 53 |
| * 10.50 | * 60 |
| * 12.10 | * 30 |
| * 8.45 | * 81 |
| * 9.25 | * 70 |
| * 9.75 | * 80 |
| * 7.25 | * 120 |
| * 12 | * 37 |
| * 9.99 | * 130 |
| * 7.99 | * 100 |
| * 8.75 | * 90 |

* 
  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.)



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