

SAT数学

张斯乐



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◆ 2. Problem Solving & Data Analysis

2.3 Scatterplots

1. Scatterplot

A scatterplot can show, at a glance, **the relationship**, if any, **between two sets of data**. It can **show the type of relationship** (linear, nonlinear and no relationship), **the strength of the relationship** (as indicated by how close the points fit a line or curve), and **whether** the data variables move in **the same** direction (if $x \uparrow$, $y \uparrow$) **or in the opposite** direction (if $x \uparrow$, $y \downarrow$).

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2. Line of best fit

The line of best fit is the line that best represents the relationship between the two sets of data graphed in a scatterplot. It is useful for **predicting** the y-value for any particular x-value that was **not included in the original data**. The dots represent **actual values** and they can **be above, on or under** the line of best fit.

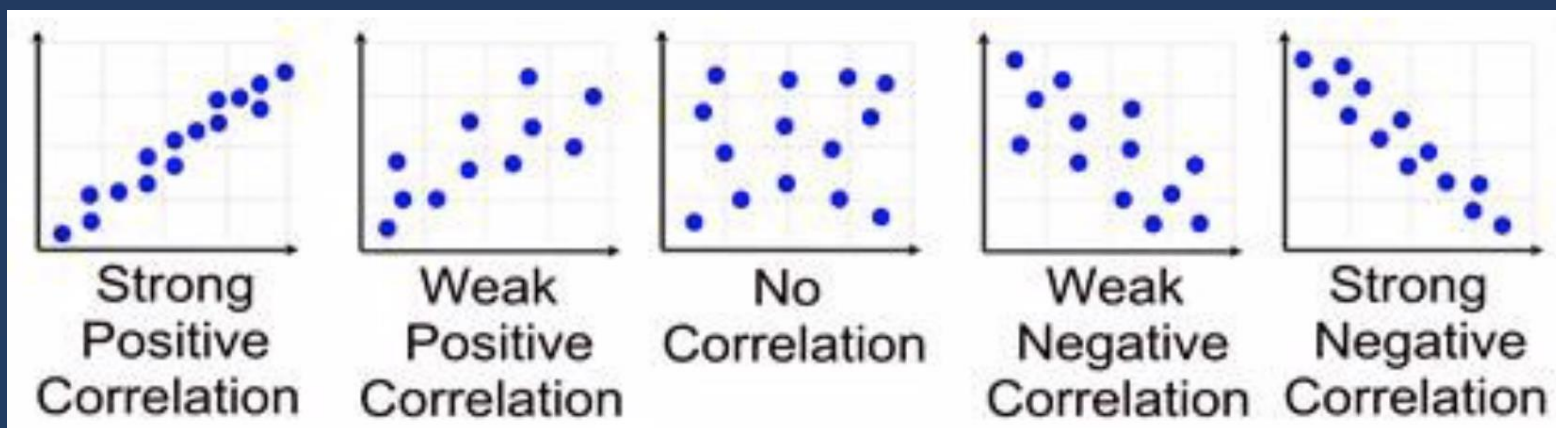
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◆ 2. Problem Solving & Data Analysis

2.3 Scatterplots

3. Association/Correlation

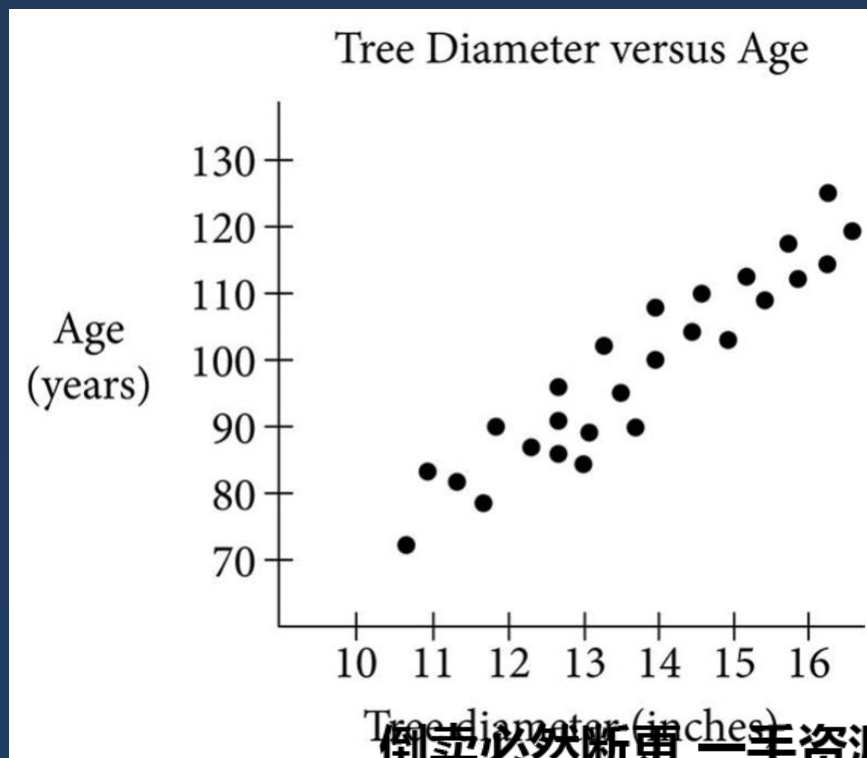


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2.3 Scatterplots

1.

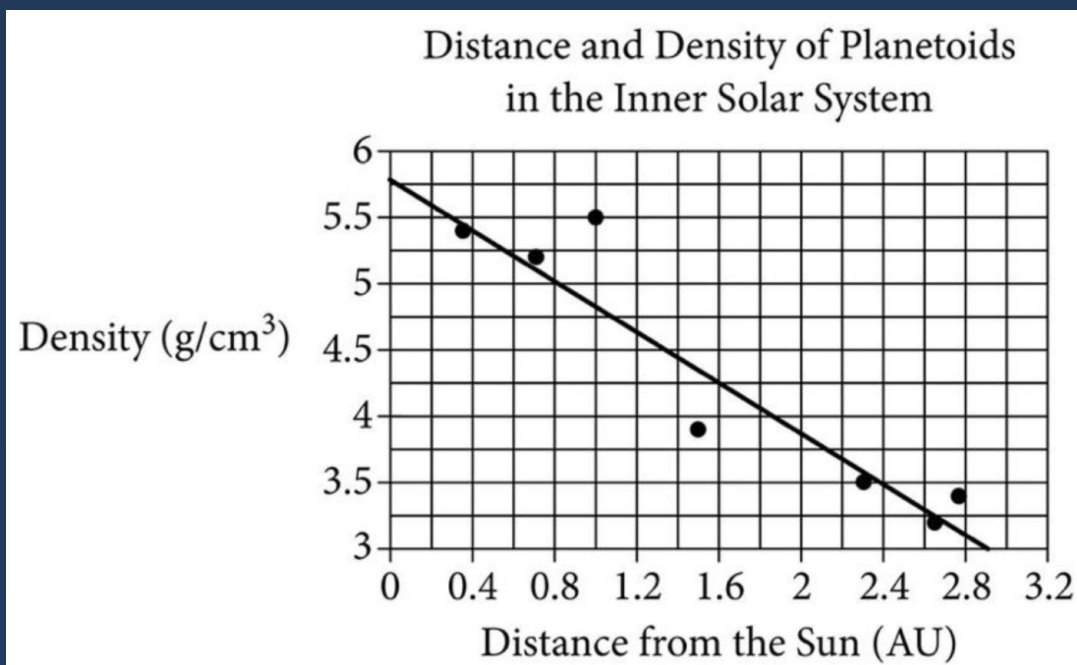


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2.3 Scatterplots

2.

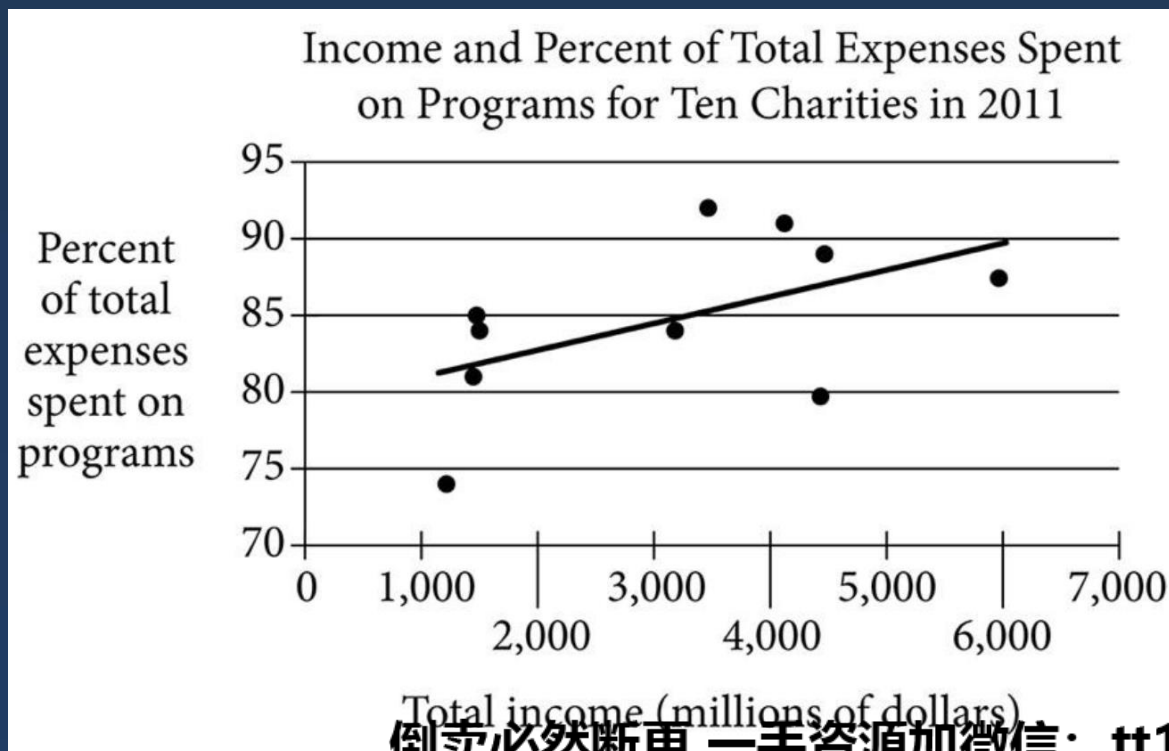


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2.3 Scatterplots

3.

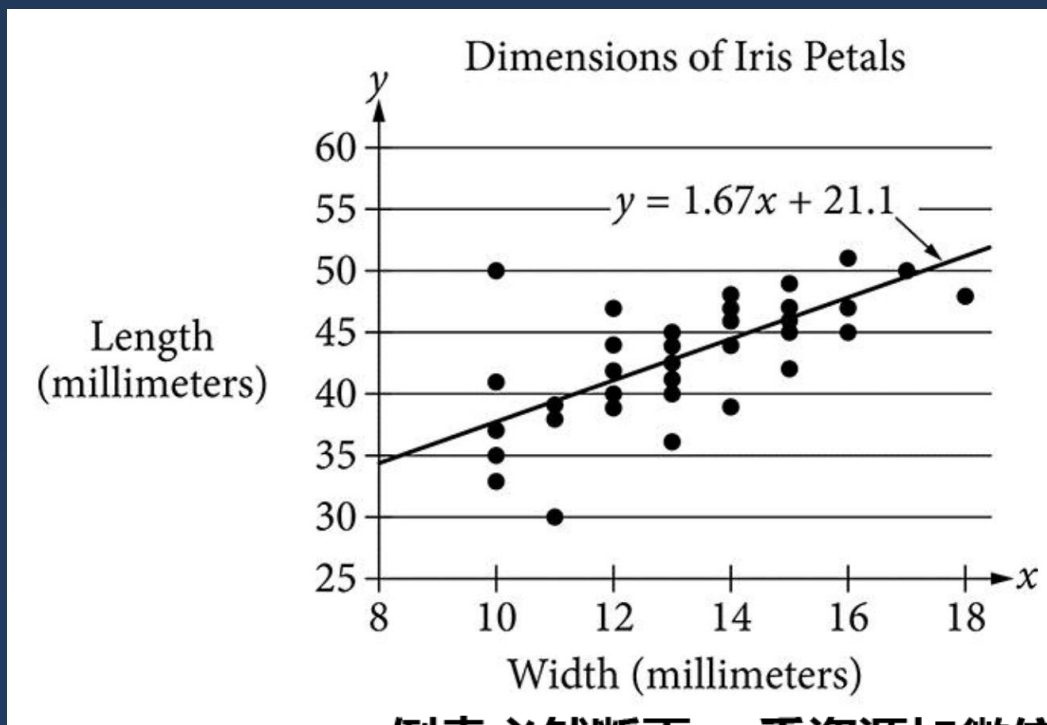


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2.3 Scatterplots

4.

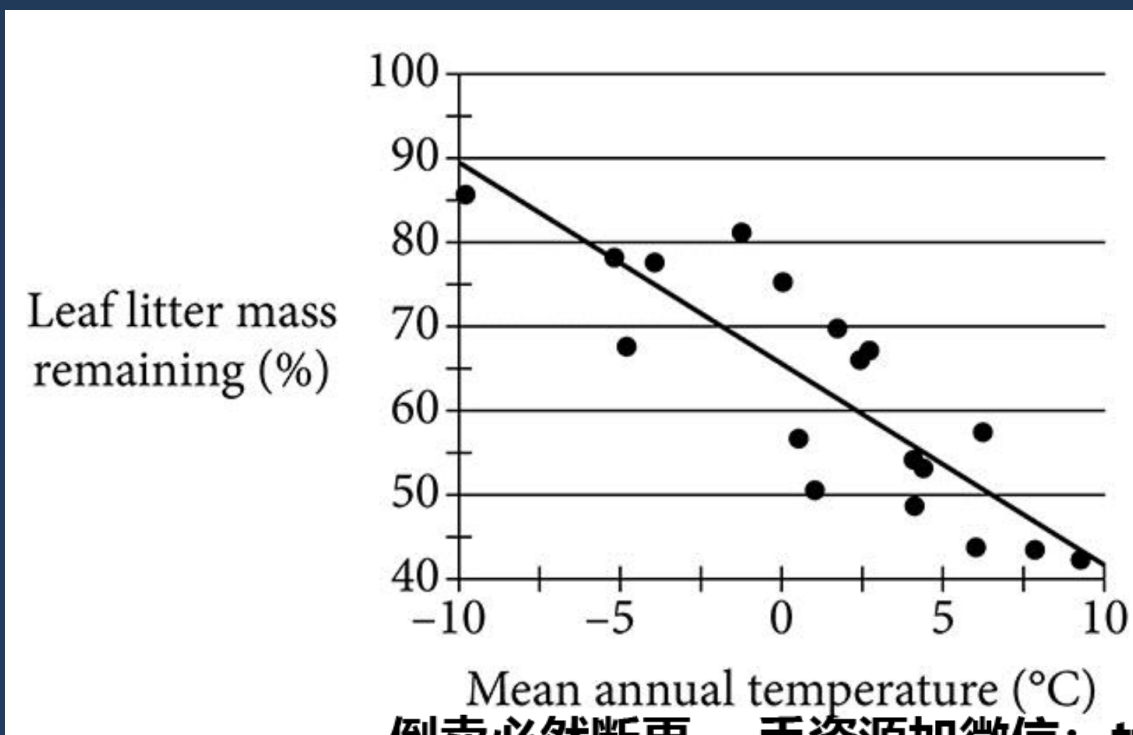


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5.



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◆ 2.3 Scatterplots

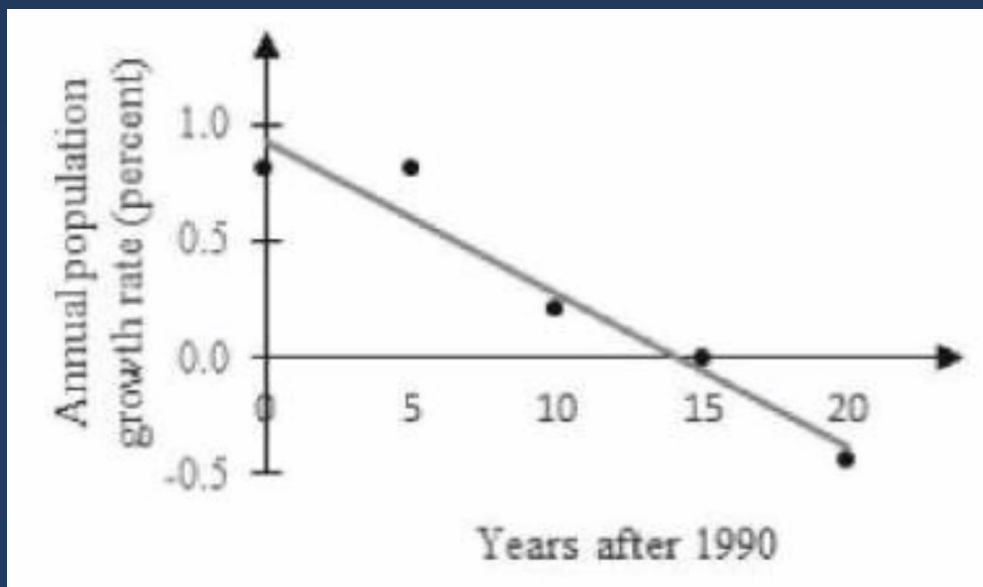
作业讲解-第6题到第13题

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◆ 2.3 Scatterplots

6. $r = -0.07t + 1.06$

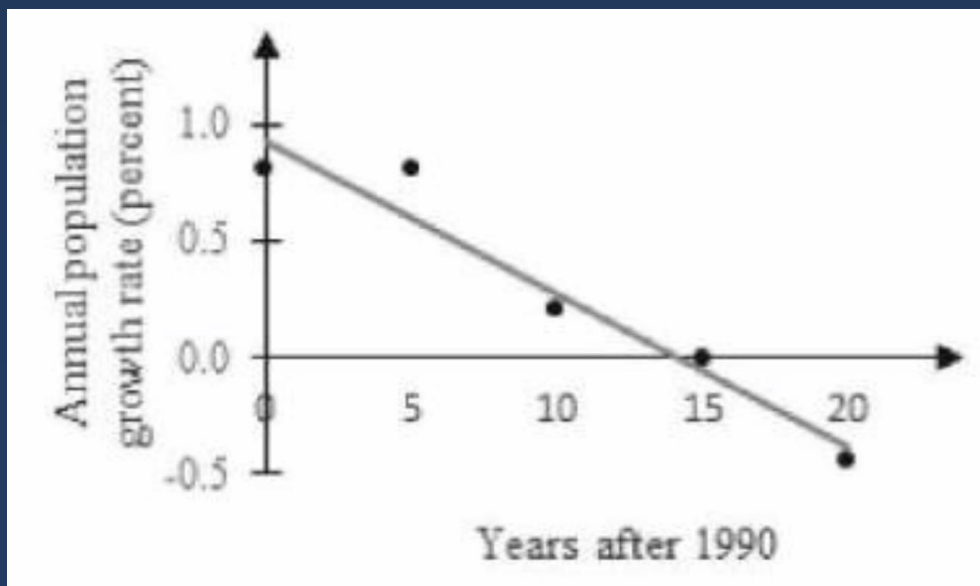


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2.3 Scatterplots

7. $r = -0.07t + 1.06$

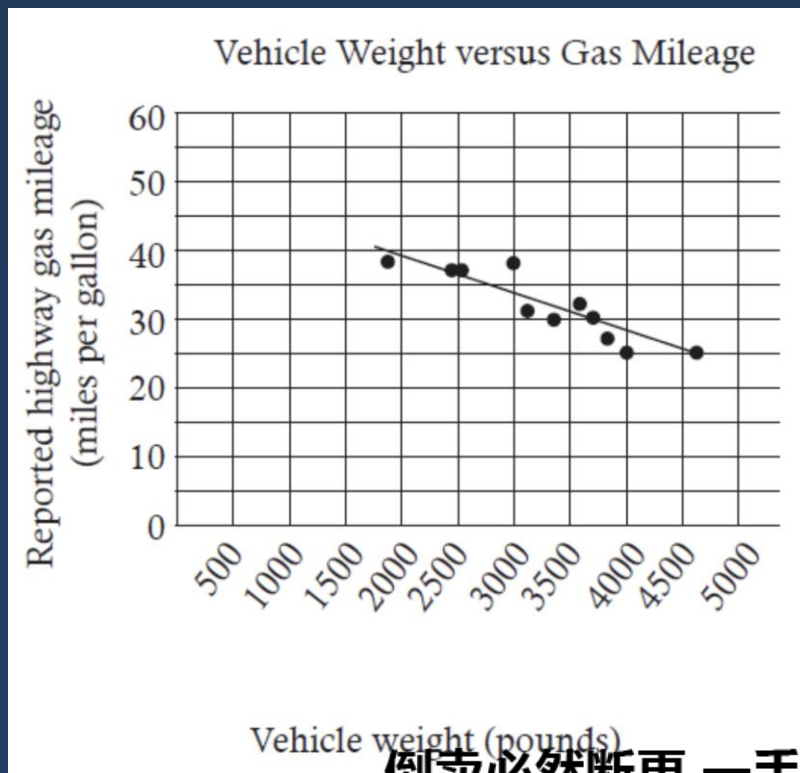


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8.

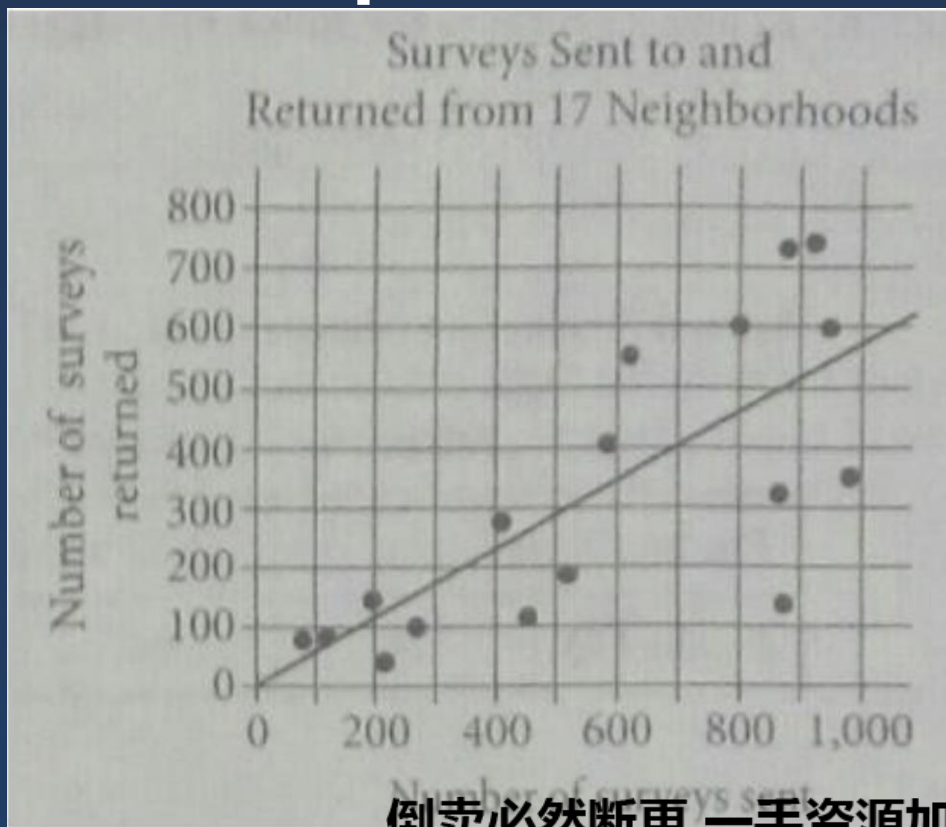


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2.3 Scatterplots

9.

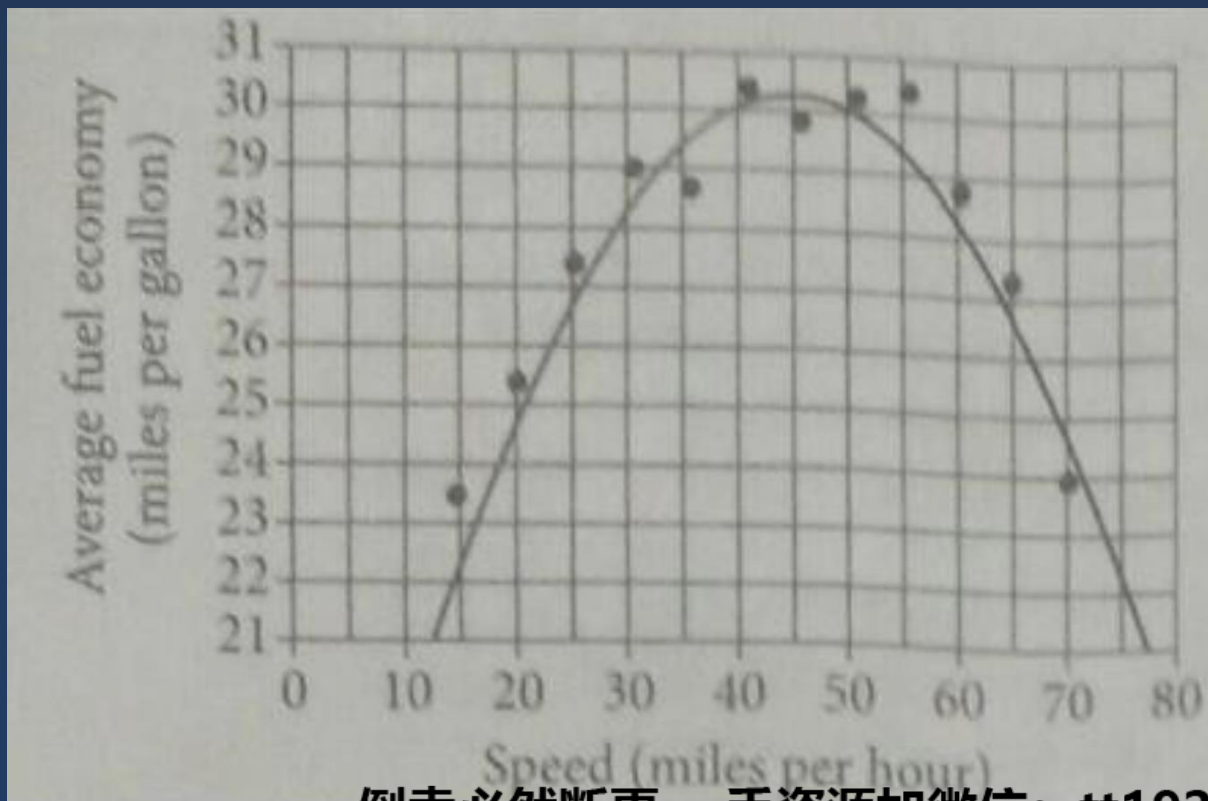


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2.3 Scatterplots

10.

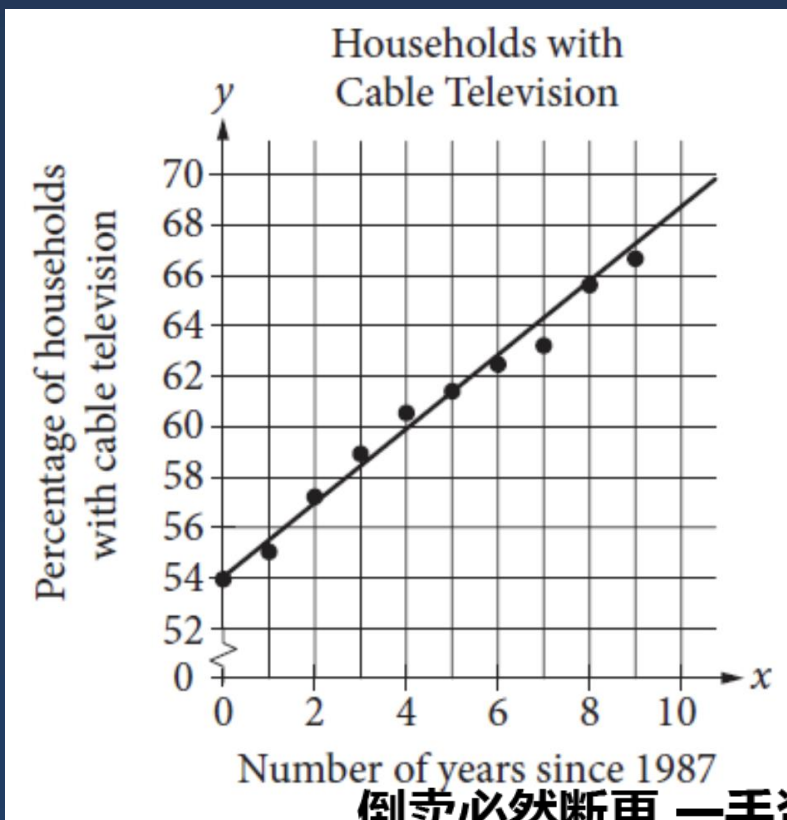


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2.3 Scatterplots

11.

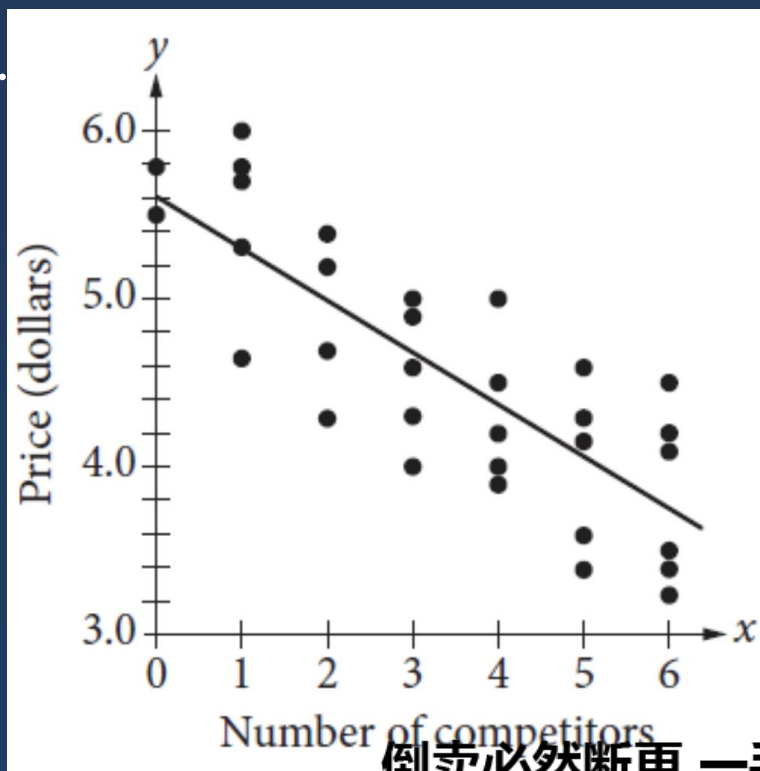


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2.3 Scatterplots

12.



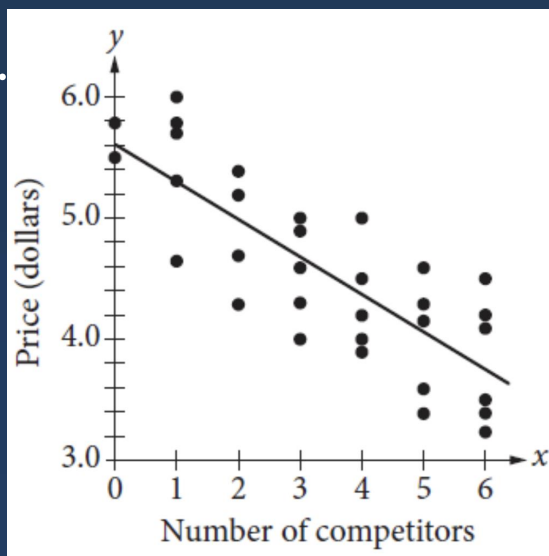
Another convenience store in the same state sells a four-pack of AA batteries for \$4.89. If the store's price is more than that predicted by the line of best fit, what is the least number of competitors the store could have?

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2.3 Scatterplots

13.



The line of best fit passes through the point (18, -0.12). Which of the following can be concluded from this?

- A. The line of best fit will not model the price well for a store with a large number of competitors.
- B. A convenience store with 17 competitors can no longer sell four-packs of AA batteries.
- C. A convenience store with 17 competitors cannot decrease its price any further.
- D. A convenience store cannot have more than 17 competitors.

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