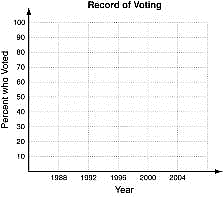
***Scatter Plots and Trend Lines***



**Graph a scatter plot using the given data.**

1.

The table shows the percent of people ages 18

–

24

who reported they voted in the presidential elections.

Graph a scatter plot using the given data.

**Year**

1988

1992

199

6

2000

2004

**% of 18**

**-**

**24**

**year olds**

36

43

32

32

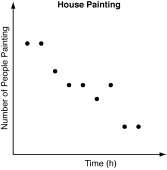
42

**Write *positive*, *negative*, or *none* to describe the correlation illustrated by each scatter plot.**

2.

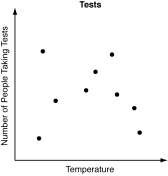
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\_\_\_\_\_\_\_\_

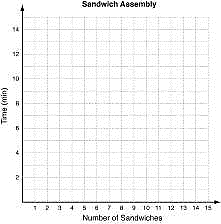


\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Number of sandwiches** | 1 | 2 | 4 | 6 | 7 |
| **Minutes** | 3 | 4 | 5 | 6 | 7 |

**3.** Neal kept track of the number of minutes it took him to assemble sandwiches at his restaurant. The information is in the table below.

1. Graph a scatter plot of the data.
2. Draw a trend line.
3. Describe the correlation as either positive or negative.

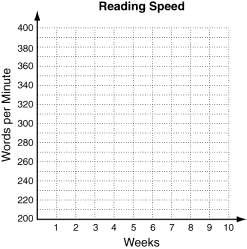
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Based on the trend line you drew, predict the amount of time it will take Neal to assemble 12 sandwiches.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Scatter Plots and Trend Lines***

**4. Fawn is trying to improve her reading skills by taking a speed- reading class. She is measuring how many words per minute (wpm) she can read after each week of the class.**

 a. Graph a scatter plot using the given data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Weeks** | 1 | 2 | 3 | 4 | 5 |
| **wpm** | 220 | 230 | 260 | 260 | 280 |

b. Describe the correlation illustrated by the scatter plot.

c. Draw a trend line and use it to predict the number of words per minute that Fawn will read after 8 weeks of this class.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

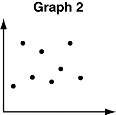
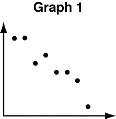
d. Fawn is paying for this class each week out of her savings account. Identify the correlation between the number of classes and Fawn’s account balance.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Choose the scatter plot that best represents the described relationship.**

a. the distance a person runs and how physically tired that person is

1. Graph 1 C Graph 3



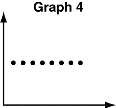
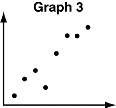
1. Graph 2 D Graph 4

b. the price of a new car and the number of hours in a day

* 1. Graph 1 H Graph 3
  2. Graph 2 J Graph 4

c. a person’s age and the amount of broccoli the person eats

* 1. Graph 1 C Graph 3



* 1. Graph 2 D Graph 4

d. the number of cats in a barn and the number of mice in that barn

* 1. Graph 1 H Graph 3
  2. Graph 2 J Graph 4