



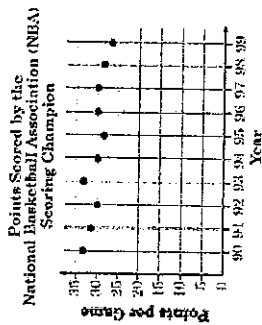
8. George collected data on the elevation of eight cities in Colorado and organized it in a table.

Place	Elevation (ft)	Highest Temp (°F)
City A	987	131
City B	178	124
City C	722	120
City D	622	124
City E	876	120
City F	285	122
City G	72	104
City H	49	89

If George plotted in data on a scatter plot, what would his results show?

- A. The temperature increased as the elevation increased.
- B. The temperature increased as the elevation decreased.
- C. The temperature stayed the same as the elevation increased.
- D. There was no relationship between the temperature and elevation.

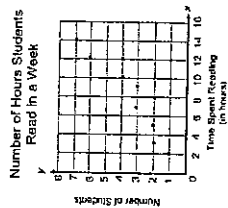
9. The scatter plot shows the points scored by NBA scoring champion from 1990 to 1999.



In which year did the scoring champion score the *most* points?

- A. 1990
- B. 1993
- C. 1996
- D. 1999

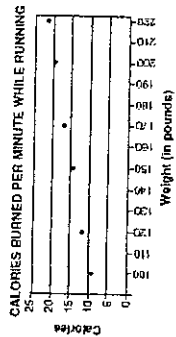
10. Emily collected data from a group of 10 students and how many hours a week they spend reading. She displayed her data in a scatterplot.



What was the *most* number of hours spent reading by a student in 1 week?

- A. 2 hours
- B. 7 hours
- C. 14 hours
- D. 16 hours

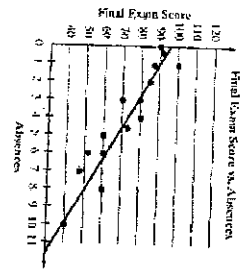
11. The scatter plot shows the relationship between the number of calories burned per minute while running and the individual's body weight.



Which statement is *best* supported by this scatter plot?

- A. As body weight increases, the number of calories per minute doubles.
- B. As body weight increases, the number of calories per minute decreases.
- C. As body weight increases, the number of calories burned per minute increases.
- D. As body weight increases, the number of calories per minute remains the same.

12. The scatter plot shows the number of class absences and exam scores for 15 students.



Predict the exam score for a student with 7 absences.

- A. 45
- B. 55
- C. 65
- D. 75

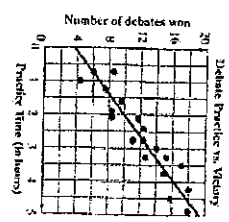
17. A radio station asks listeners which college football team is their favorite. The station recorded the listeners' results in a table.

Favorite College Team		
Resident	Duke	UNC
Durham County	78	22
Orange County	35	65

What can be concluded from the data collected?

- A. Durham County residents prefer UNC over Duke.
- B. Orange County residents prefer UNC over Duke.
- C. There are more Durham County residents than Orange County residents.
- D. There are more Orange County residents than Durham County residents.

13. The advisors of some debate teams answered a survey after the last debate of the year. The scatterplot shows the results of the survey.



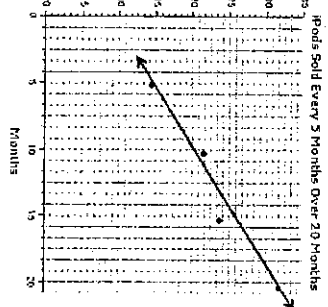
If a team practices for 2.5 hours per day next season, estimate the number of debates the team will win.

- A. about 5
- B. about 10
- C. about 12
- D. about 15

14. A scatter plot has a positive correlation between the variables x and y. Which line of best fit could be used to represent the scatter plot?

- A.  $x = 4$
- B.  $y = -2$
- C.  $y = -5x + 1$
- D.  $y = 2x - 3$

- Emme graphed the number of iPods sold every 5 months for the past 20 months.



Using the line of best fit shown, what is the predicted number of iPods to be sold 15 months from now?

- A. 27
- B. 30
- C. 41
- D. 49

16. Milton Elementary School is determining which students from different grade levels buy a school lunch from the cafeteria. The results are reported in the table below.

Do You Buy Lunch in the Cafeteria?		
Grade	Yes	No
K	20	35
1	40	50
2	45	55
3	40	30
4	30	40
5	50	45

Which grade level has the greatest percentage of students who purchase a cafeteria lunch?

- A. Grade K
- B. Grade 2
- C. Grade 3
- D. Grade 5

REVIEW! UNIT 9 SCATTER PLOTS

Bath water levels

Time (in minutes)	Depth (in cm)
2	7
4	8
6	13
8	19
10	20
12	24
14	32
16	37
18	38
20	41
22	47

1. Create a scatter plot to display this data on your graph paper.
2. Is there a positive, negative, or no correlation? Is strong or weak?
3. Draw the line of best fit.
4. Approximate the equation of the line of best fit. Show ALL work.  
(Slope Intercept Form)
5. Predict the depth of water in the bath after 15 minutes have passed.
6. Predict the time it will take for the water to reach a depth of 40 cm.