

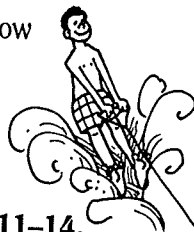
# GRAPHING, STATISTICS, & PROBABILITY SKILLS TEST

Each answer is worth 1 point. Total possible score: 100 pts.

Choose the matching term for each definition. Write the letter on the line.

- |              |               |                |
|--------------|---------------|----------------|
| a. histogram | d. statistics | h. mean        |
| b. data      | e. frequency  | i. scattergram |
| c. median    | f. mode       | j. range       |
|              | g. line graph |                |

- \_\_\_ 1. the number of times an item appears in a set of data
- \_\_\_ 2. information given in numerical form
- \_\_\_ 3. a bar graph showing frequency data
- \_\_\_ 4. the average of a number of data items
- \_\_\_ 5. the collection, organization, and interpretation of sets of numerical data
- \_\_\_ 6. the number that appears most often in a set of data
- \_\_\_ 7. the difference between the least and greatest numbers in a set of data
- \_\_\_ 8. a graph that shows the relationship between two items
- \_\_\_ 9. a graph that uses lines to show changes in data over time
- \_\_\_ 10. the number that falls in the middle of a set of data arranged in order



Use this frequency table for questions 11–14.

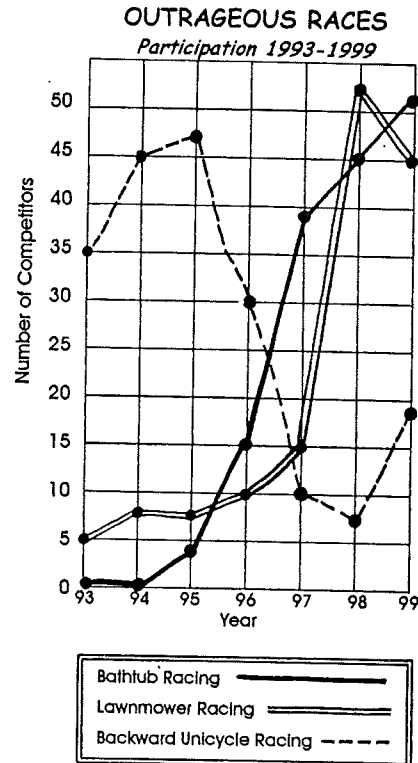
Number of Extreme Sports Events Held in Crash County, 1994–2000				
Sport	1994	1996	1998	2000
Wakeboarding	14	18	21	26
Barefoot Skiing	3	5	5	12
Jet Skiing	39	28	24	30
Windsurfing	0	1	4	6
Skysurfing	0	0	4	9
Dirt Bike Jumping	20	18	19	20

11. Which kind of sporting event was held most frequently over the years shown?  
\_\_\_\_\_
12. How many sports increased in events from 1994 to 2000?  
\_\_\_\_\_

13. Which sport nearly doubled in number of even  
\_\_\_\_\_

14. Which quadrupled in number of events?  
\_\_\_\_\_

Use this graph to answer questions 15–20.



15. Which races had less than 35 competitors in 199  
\_\_\_\_\_

16. Which sport made the greatest gain in competitors from 1995 to 1999?  
\_\_\_\_\_

17. Which sport had the greatest loss in participation?  
\_\_\_\_\_

18. Did the lawnmower races have more total participants in '95–'97 than the backward unicycle races?  
\_\_\_\_\_


19. In which year were the 3 sports closest in number of competitors?  
\_\_\_\_\_

20. Which sport made the greatest gain in participation between '98 and '99?  
\_\_\_\_\_

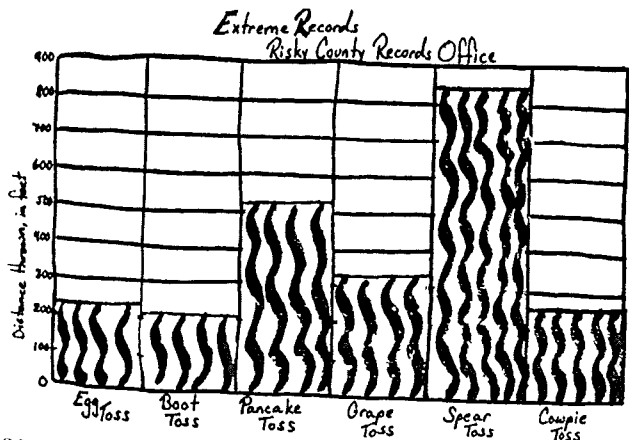
Name \_\_\_\_\_


Use this Data Table for questions 21–29.

MOTORCYCLE JUMPS					
Numbers of Cars Jumped During Contest					
BIKER	Mon	Tue	Wed	Thur	Fri
J. J.	12	14	5	9	0
R. J.	16	15	15	15	14
P. J.	7	9	10	10	7
L. J.	12	10	8	7	15
T. J.	15	8	6	15	0

21. What is the mean of J. J.'s jumps? \_\_\_\_\_
22. What is the mode of all the data on the table? \_\_\_\_\_ 
23. What is the mean of R. J.'s jumps? \_\_\_\_\_
24. Who has the greatest range in jumps? \_\_\_\_\_
25. What is the median for Wednesday? \_\_\_\_\_
26. What is the mean for Friday's jumps? \_\_\_\_\_
27. What is the median of L. J.'s jumps? \_\_\_\_\_
28. What is the range of the data on the table? \_\_\_\_\_
29. What is the mean of T. J.'s jumps? \_\_\_\_\_

Use this graph for questions 30–34.



30. Which record was a distance about twice the egg toss? \_\_\_\_\_
31. Which toss was about 200 less than the pancake toss? \_\_\_\_\_ 
32. Which records were the closest? \_\_\_\_\_
33. Which record was about 500 less than the spear toss? \_\_\_\_\_
34. Which record was about 600 more than the cowpie toss? \_\_\_\_\_

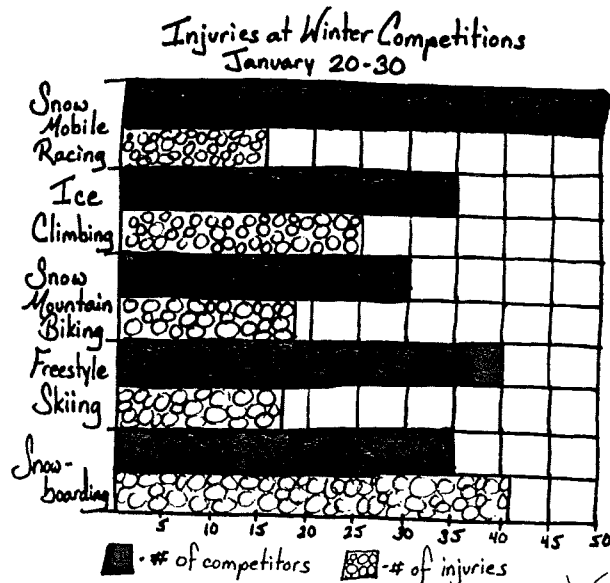
Use this Data Table for questions 35–39.


TICKETS SOLD ON ROLLERCOASTERS			
Rollercoaster	June	July	August
Tsunami	20,110	14,980	6,050
The Tarantula	5,070	9,310	6,800
The Terminator	12,400	24,100	17,700
Toronto Twister	10,000	10,900	10,500
Tummy Turner	3,100	8,650	9,700
Texas Torture	8,020	5,070	16,300



35. Which coaster dropped in ticket sales between June and July? \_\_\_\_\_
36. Which coaster made the biggest gain in ticket sales between June and August? \_\_\_\_\_
37. Which coaster made the biggest gain in ticket sales between June and July? \_\_\_\_\_
38. Overall, which month was the best for ticket sales on the coasters? \_\_\_\_\_
39. Which coaster sold almost 5 times as many tickets in July as The Tarantula sold in June? \_\_\_\_\_

Use this graph for questions 40–44.



40. Which sport had more than one injury per athlete? \_\_\_\_\_ 
41. Which 2 sports had 15 less competitors than snowmobile racing? \_\_\_\_\_
42. Which sport had the fewest number of injuries in relation to the number of competitors? \_\_\_\_\_
43. Which sport had an injury for just less than half of its competitors? \_\_\_\_\_
44. Did any sport have about one injury for every 3 competitors? \_\_\_\_\_