

### QPOEE Quiz #3

Learning Target: Analyze data to answer a scientific question.

- Communicate patterns in data using mean
- Create graphs that include an appropriate title and label each axis.
- Read and interpret graphs and tables

Softball Throw Data

Contestant	1	2	3	MEAN
Stacey	10 m	1 m	20 m	<u>10.3 m</u>
Jessica	12 m	24 m	42 m	<u>26 m</u>
Johnny	33 m	<b>63 m</b>	36 m	<u>44 m</u>
Lucas	51 m	47 m	53 m	<u>50.3 m</u>

1. Use the data table, above, to respond to question 1.

a. Find the mean for each contestant and place it on the table. (4 pts)

It's okay to use a calculator. Round to the nearest tenth, if necessary.

b. Johnny had a really long distance for toss #2 and believes that he was the most **consistent** contestant. Do you agree or disagree with Johnny's claim? **AGREE** or **DISAGREE** (1 pt)

c. Explain WHY: (circle one)

Johnny does not have the longest, average throw, at 44 meters.  
Lucas has the longest throw with 50.3 meters

(1pt)

2. The results of a survey on how students got to school are shown in the table to the right. How many students come to school in a taxi or in a car? 12 students (1pt)

Method of Travelling	Number of students
Walking	8
<u>Car</u>	<u>9</u>
Bus	4
Cycle	5
Train	1
<u>Taxi</u>	<u>3</u>

\* Do NOT forget to label your answers, if needed!

### Daily E-mail Check

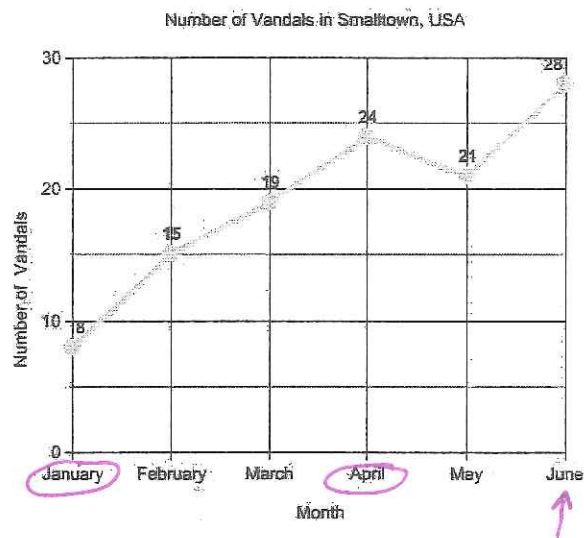
3. A survey asked people how many times they check their email every day. The results of the survey were compiled in the table to the right. How many people between the ages of 31 and 40 check their email every day? 12 people (1pt)

Age	Tally	Number of people
11 - 20	HH IIII	9
21 - 30	HHH HHH HHH I	16
31 - 40	HHH HHH II	12
41 - 50	IIII	4
51 - 60	HHH I	6
61 - 70	I	1

4. Based on the graph to the right, how many more vandals were there in April than there were in January? 16 vandals (1pt)

$$\begin{array}{r} 24 \\ -8 \\ \hline 16 \end{array}$$

5. Based on the graph to the right, in what month were there the most vandals? June (1pt)

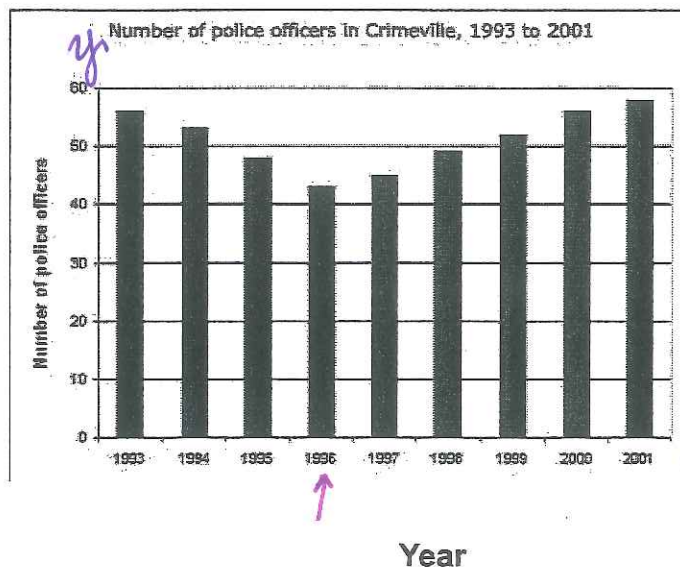


6. On the graph, to the right, what is on the y-axis?

Number of Police Officers (1pt)

7. During which year did Crimeville have the least amount of police officers?

1996 (1pt)

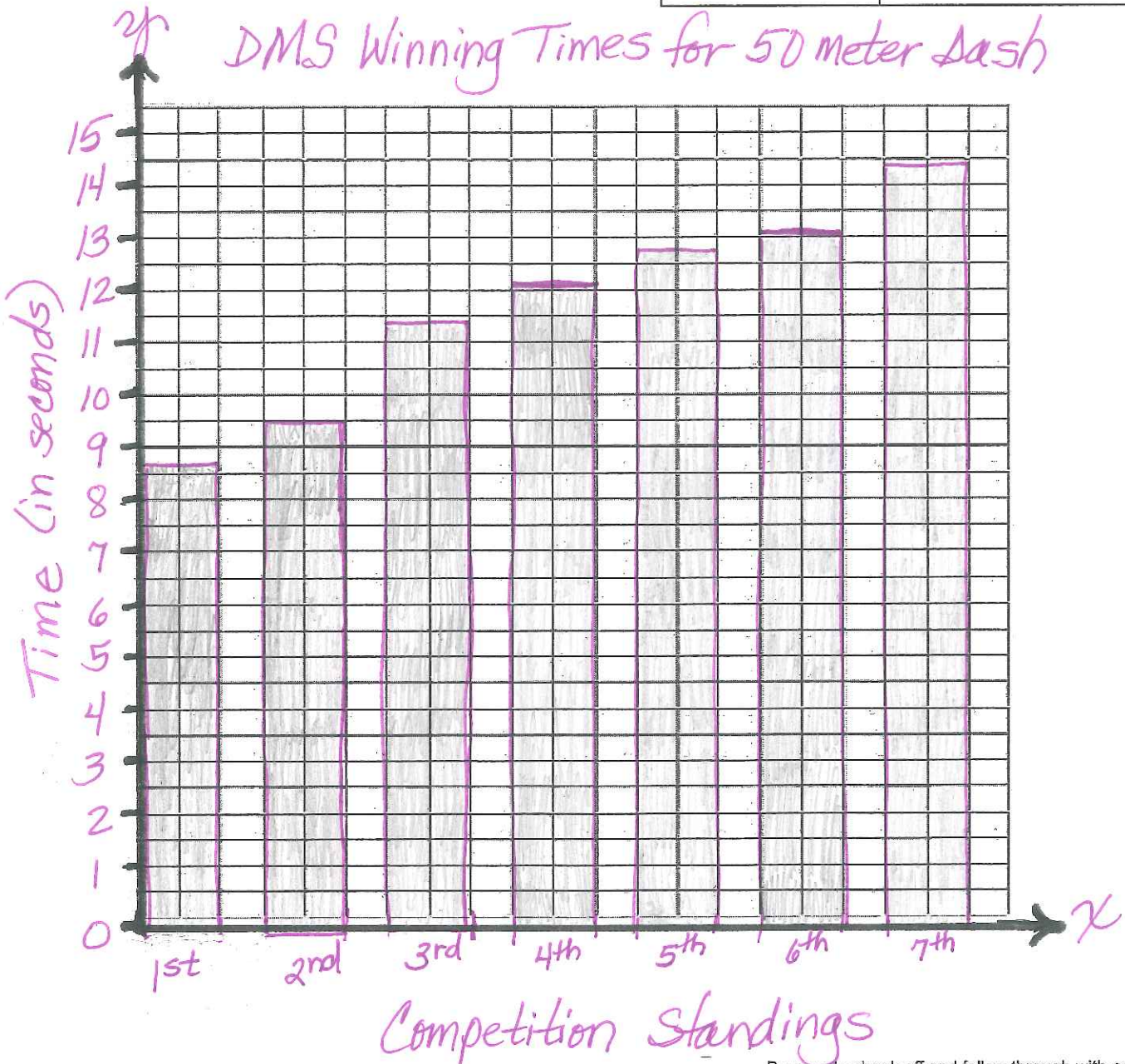


8. There were a total of 7 competitions for the 50-Meter Dash at DMS. The winning times were recorded, in seconds, on the table. Create a bar graph to represent the data.



DMS Winning Times for 50-Meter Dash

Competition Standings	Time (in seconds)
1st	8.7 sec
2nd	9.5 sec
3rd	10.9 sec
4th	11.6 sec
5th	12.7 sec
6th	13.1 sec
7th	14.4 sec



\* Reminders →

Be sure to check off and follow through with each important piece needed for a graph, below!

- Place x & y on correct axis (1 pt)
  - Label each axis (1 pt)
  - Title the graph (1 pt)
  - Correctly plot points (1 pt)
  - Created correct graph type (1 pt)
- (5 pts) total