What Do You Get When You Cross the Atlantic with the Titanic?

Find each answer at the bottom of the page and cross out the letter above it (some are rounded).

1. Practice times for five swimmers in the 50-meter freestyle are given in the table. Find the following:
   a. The mean of Mike’s times.
   b. The mean of Jason’s times.
   c. The mean of the times on Trial 1.
   d. The median of Ryan’s times.
   e. The median of the times on Trial 4.
   f. The mode of all 20 times in the table.

<table>
<thead>
<tr>
<th>Name</th>
<th>Trial 1 (s)</th>
<th>Trial 2 (s)</th>
<th>Trial 3 (s)</th>
<th>Trial 4 (s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mike</td>
<td>34.1</td>
<td>33.8</td>
<td>30.5</td>
<td>31.6</td>
</tr>
<tr>
<td>Alan</td>
<td>32.5</td>
<td>33.3</td>
<td>34.0</td>
<td>33.8</td>
</tr>
<tr>
<td>Jason</td>
<td>41.7</td>
<td>40.0</td>
<td>39.2</td>
<td>38.4</td>
</tr>
<tr>
<td>Scott</td>
<td>29.4</td>
<td>29.4</td>
<td>31.0</td>
<td>31.6</td>
</tr>
<tr>
<td>Ryan</td>
<td>33.8</td>
<td>32.5</td>
<td>33.8</td>
<td>33.4</td>
</tr>
</tbody>
</table>

2. The weekly salary for 10 people is given in the table. Find:
   a. The mean salary.
   b. The median salary.
   c. The mode of the salaries.

<table>
<thead>
<tr>
<th>Weekly Salary</th>
<th>No. of People</th>
</tr>
</thead>
<tbody>
<tr>
<td>$2400</td>
<td>1</td>
</tr>
<tr>
<td>$900</td>
<td>1</td>
</tr>
<tr>
<td>$600</td>
<td>3</td>
</tr>
<tr>
<td>$500</td>
<td>5</td>
</tr>
</tbody>
</table>

3. The mean weight of 32 math students is 98.3 lb. If the students could all stand on the scale together, what would their total weight be?

4. The Pie Arsquare Bakery sold 869 pies during the month of January. What was the mean number of pies sold per day?

5. Julie has taken 5 tests in science this semester. On the first three tests, her mean score was 70%. On the last two tests, her mean score was 90%. What is the mean of all five scores?

6. On his trip to the mountains, Klink drove for 3 hours at an average speed of 50 mph, then for 2 hours at an average speed of 30 mph. What was his average speed for the entire trip?

7. As an experiment, Rex tossed 3 coins together and counted the number of heads. He repeated the experiment 25 times. The outcomes are given in the table. What is the mode?

<table>
<thead>
<tr>
<th>Tossing 3 Coins: Number of Heads</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 0 2 3 2</td>
</tr>
<tr>
<td>1 3 2 0 1</td>
</tr>
<tr>
<td>2 2 1 1 2</td>
</tr>
<tr>
<td>0 3 1 2 1</td>
</tr>
<tr>
<td>2 1 1 2 3</td>
</tr>
</tbody>
</table>

8. Marissa has taken four 100-point tests in math this semester. Her mean score is 89%.
   a. How many points has she scored altogether on the four tests?
   b. What score does she need on test #5 so that the mean of all five scores will be 90%?
**Survey Results: What is your favorite kind of pie?**
The "pie chart" shows how 175 people responded to this question.

E. What percent of those surveyed chose apple?
A. How many people chose apple?
L. How many people chose cherry?
S. What is the measure of the central angle for the "Lemon meringue" sector?
I. What is the measure of the central angle for the "Banana cream" sector?
A. What is the sum of the central angle measures in any circle graph?

**What's in the average American's trash can?** The average American throws away about 1800 lb of trash per year. The graph shows the makeup of that trash.

L. What percent of the trash is plastic?
N. How many pounds of glass are thrown away by the average American each year?
A. How many pounds of paper are thrown away by the average American each year?
E. What is the measure of the central angle for the "Yard waste" sector?
L. What is the measure of the central angle for the "Glass" sector?
R. What is the sum of the percents in any circle graph?

**What is the source of our power?** The chart shows the sources of U.S. electricity in a recent year. In a circle graph of this data, what is the central angle measure for each of the following:

S. The "Nuclear power" sector?
Y. The "Coal" sector?
L. The "Oil" sector?
V. The "Other" sector?

---

**Favorite Kind of Pie**
- Cherry: 20%
- Apple: ___%
- Banana cream: 9%
- Lemon meringue: 32%

**Trash in America**
- Paper: 41%
- Plastic: ___%
- Glass: 8%
- Food waste: ___%
- Other: 10%
- Yard waste: 18%
- Metal: ___%

**Source** | **Percent**
--- | ---
Nuclear power | 21.9
Coal | 56.3
Oil | 3.3
Hydroelectric power | 8.5
Natural gas | 9.4
Other | 0.6