3.8 Review

In this worksheet, we will review what we have learned about data analysis. If you would like further explanation before attempting these problems, links to video descriptions can be found at the end of this worksheet. Starred problems have video solutions.

The following table shows the number of pets that Stephen’s family has:

<table>
<thead>
<tr>
<th>Type of Pet</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dog</td>
<td>2</td>
</tr>
<tr>
<td>Cat</td>
<td>3</td>
</tr>
<tr>
<td>Fish</td>
<td>18</td>
</tr>
<tr>
<td>Turtle</td>
<td>1</td>
</tr>
<tr>
<td>Hamster</td>
<td>2</td>
</tr>
</tbody>
</table>

1. Which type of pet does Stephen’s family have the most of?
   (a) Fish
   (b) Turtle
   (c) Dog
   (d) Hamster

2. If Stephen has to take all of his dogs, cats, and hamsters to the veterinarian, how many animals does he have to take?
   (a) 9
   (b) 5
   (c) 7
   (d) 4

3. What is the most common, or most frequent, type of soda?
   (a) Coke
   (b) Pepsi
   (c) Dr. Pepper
4 How many people were part of the survey?
(a) 10
(b) 5
(c) 30
(d) 2

Pay Gap in Journalism Has Shrunk Over Time, But Less So in Recent Decades

Median salaries in constant 2012 dollars

Source: Indiana University American Journalist Survey
PEW RESEARCH CENTER

5 In what year is the difference between men’s and women’s median salaries the greatest?
(a) 1970
(b) 1981
(c) 2001
(d) 2012

6 What is the average median salary for women journalists from the years that we have data for?
(a) $51,382.35
(b) $44,281.60
(c) $38,468.10
(d) $42,624.30
7 Which technology company received the most mobile display ad dollars in 2013?
   (a) Google
   (b) Other
   (c) Pandora
   (d) Facebook

8 What percent of mobile display ad dollars went to Apple or Twitter in 2013?
   (a) 17.6%
   (b) 24.5%
   (c) 13.3%
   (d) 8.5%
9. Do the majority of executions occur before or after 1995?
   (a) before 1995
   (b) after 1995
   (c) neither

10. What is the ratio of executions in 1999 to executions in 2014?
    (a) 4:1
    (b) 8:5
    (c) 5:3
    (d) 7:1
11 What is the difference between the percentage of people who believe that marijuana should be legal to and the percentage of people who believe that marijuana should be illegal in 1989?

(a) 19%
(b) 35%
(c) 65%
(d) 83%

12 How much did support for legalization of marijuana increase between 1989 and 2014?

(a) 38%
(b) 39%
(c) 42%
(d) 36%