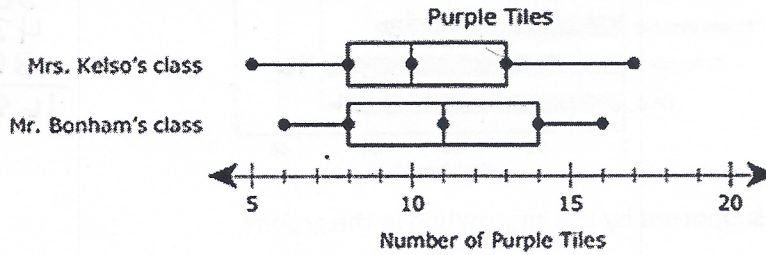


Data and Financial Literacy Test Review

1. Mrs. Kelso and Mr. Bonaham gave each of their students a small bag of colored tiles. The students each counted the number of purple tiles they received. The box plots display the data for both classes.

Kelso
 Range = $17 - 5 = 12$
 skewed right
 median = 10
 IQR = $13 - 8 = 5$

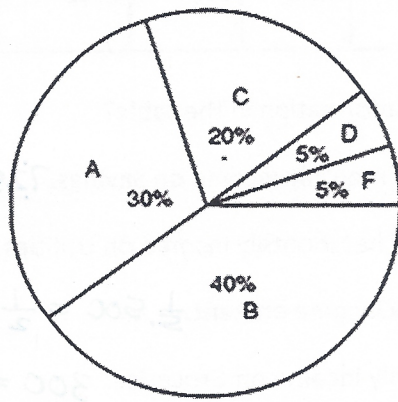


Bonham
 range = $16 - 6 = 10$
 symmetrical
 median = 11
 IQR = $14 - 8 = 6$

Which statement is best supported by the information in the box plots?

- A. The range of the data for Mr. Bonaham's class is less than the range of the data for Mrs. Kelso's class.
- B. The data for Mrs. Kelso's class are more symmetrical than the data for Mr. Bonaham's class.
- C. The median number of the data for Mr. Bonaham's class is less than the median number of the data for Mrs. Kelso's class. *11 is not less than 10*
- D. The interquartile range of the data for Mrs. Kelso's class is greater than the interquartile range of the data for Mr. Bonaham's class. *5 is not greater than 6*

2. Students in a history class took their first test. Below are the results of 25 students who took the test.



Based on the graph, how many students scored a B on the test?

$$\frac{x}{25} = \frac{40}{100}$$

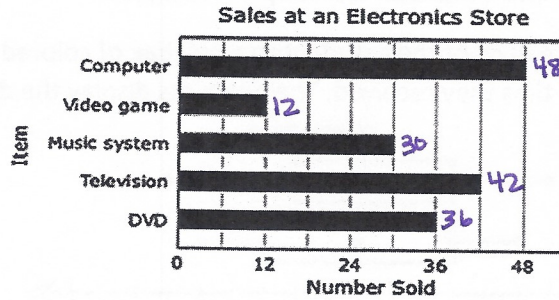
(Arrows indicate cross-multiplication: $x \cdot 100 = 25 \cdot 40$)

$x = 10$

or

$$25 \times 0.4 = 10$$

3. The graph below shows the number of items sold at an electronics store one weekend.



$$\begin{array}{r}
 48 \\
 12 \\
 30 \\
 42 \\
 36 \\
 \hline
 168 = \text{total}
 \end{array}$$

Which statement is best supported by the information in the graph?

- A. The number of video games sold was $\frac{1}{3}$ of the number of computers sold. *12 is not $\frac{1}{3}$ of 48*
- B. The number of music systems sold was 36 more than the number of video games sold. *NO, there were only 30 music systems sold*
- C. The number of televisions sold was 12 more than the number of DVDs sold. *42 is not 12 more than 36*
- D. The number of televisions sold was $\frac{1}{4}$ of the total number of items sold. *42 is $\frac{1}{4}$ of 168*

4. Gloria's monthly income is \$3,000. The table displays the different categories in Gloria's monthly budget and the amount of money she spends in each category.

Category	Rent	Utilities	Cable	Cell Phone	Groceries	Savings
Amount of Money	\$1,500	\$300	\$100	\$75	\$300	\$725

total = 3000

$$\begin{array}{r}
 1500 \\
 300 \\
 100 \\
 75 \\
 300 \\
 725 \\
 \hline
 3000
 \end{array}$$

Which statement is **not** supported by the information in the table?

- A. Gloria spends less than $\frac{1}{4}$ of her monthly income on Savings. *$\frac{1}{4} \times 3000 = 750$*
- B. Gloria spends more than 10% of her monthly income on Utilities. *300 = 10% of 3000*
- C. Gloria spends $\frac{1}{2}$ of her monthly income on Rent. *1,500 = $\frac{1}{2}$ of 3000*
- D. Gloria spends 10% of her monthly income on Groceries. *300 = 10% of 3000*

5. Rodrigo created a net worth statement shown. Based on the statement, what is Rodrigo's net worth?

Assets	
Checking account	\$900
Savings account	\$2,550
Home value	\$280,000
Car value	\$10,000
Total Assets	\$293,450
Liabilities	
Credit Card debt	\$8,575
Student Loans	\$15,380
Total Liabilities	\$23,955

$$\begin{array}{r}
 293450 \\
 - 23955 \\
 \hline
 269495
 \end{array}$$

\$269,495

6. The table below shows how many pounds of certain types of tropical fruit were sold at a store during a 3-month period.

Type of Fruit	Number of Pounds Sold
Papaya	480
Guava	240
Pineapple	600
Mango	180

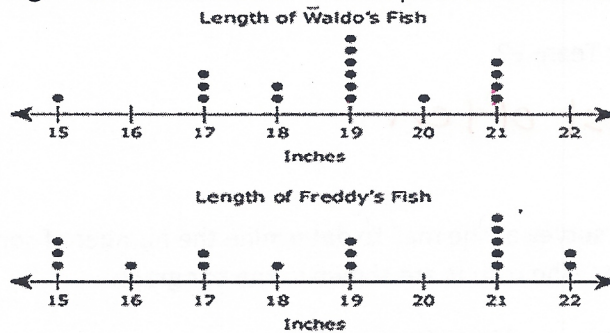
total:
$$\begin{array}{r} 480 \\ 240 \\ 600 \\ 180 \\ \hline 1500 \end{array}$$

If the store uses only this data to order fruit, which conclusion is most reasonable?

- A. The store should order half as many pounds of guava as papaya. ✓
- B. The store should order half as many pounds of guava as pineapple.
- C. The store should order half as many pounds of mango as papaya.
- D. The store should order half as many pounds of mango as pineapple.

7. Walt and Freddy caught fish one weekend. The dot plots show the lengths of the fish they caught.

Waldo
 med: 19
 mode: 19
 range: $21 - 15 = 6$



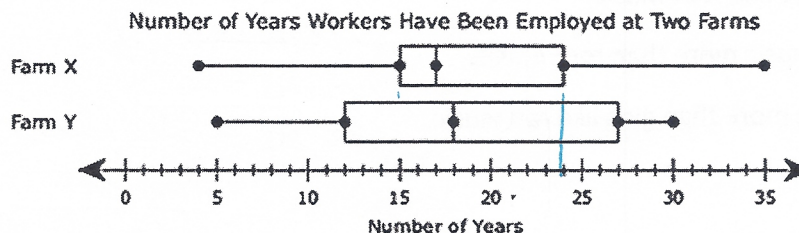
Freddy
 med: 19
 mode: 21
 range: $22 - 15 = 7$

Which statement about the lengths of the fish caught by Waldo and Freddy appear to be true?

- A. The data for Waldo's fish and the data for Freddy's fish are skewed to the right.
- B. The median length of the fish caught by Waldo is greater than the median length of the fish caught by Freddy. *they're the same*
- C. The range of the length of the fish caught by Freddy is greater than the range of the length of the fish caught by Waldo. *7 is greater than 6*
- D. The data for Waldo's fish and the data for Freddy's fish are approximately symmetrical.

8. Based on the box plot below, what is the difference in the interquartile ranges of the two graphs?

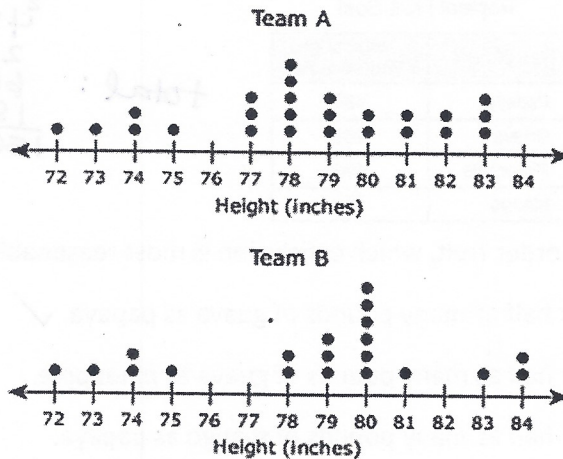
Farm X:
 $Q_3 - Q_1$
 $24 - 15 = 9$



Farm Y:
 $Q_3 - Q_1$
 $27 - 12 = 15$

$15 - 9 = 6$

Use the dot plots below to answer questions #9 and #10:



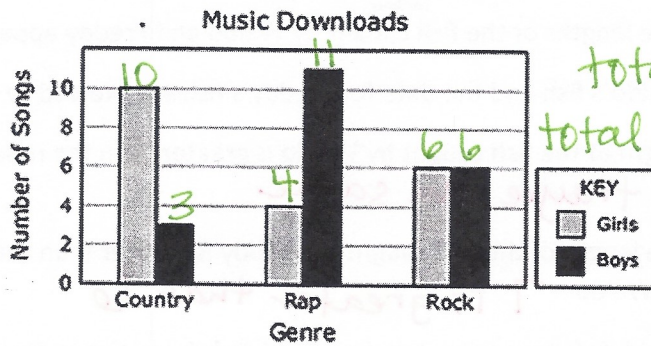
9. What is the range in height for Team A?

$83 - 72 = 11$ range = greatest # - least #

10. What is the mode height for Team B?

80 most often

11. Parker conducted a random survey at the mall to determine the number of songs in each genre that were downloaded by 40 students. The results are shown in the bar graph.



total: 40
total girls: 20
total boys: 20

Based on the information in the graph, what inference about the general population of students is valid?

- A. Girls like country music more than all other genres combined.
- G. More girls than boys like rock music.
- H. Boys like country music more than rock music.
- J. Boys like rock music more than girls like rap music.