Mystery Plots and Landmarks

Lesson 1-2

DATE TIME

Math Message

Complete the statements below. *Do not share your answers.*
Estimate if you do not know the exact answer.

A. I usually spend about _____ minutes taking a shower or a bath.

B. There are _____ letters in my first, middle, and last names all together.

C. There are _____ people living in my home.

D. My shoe is about _____ centimeters long (to the nearest centimeter).

E. I watch about _____ hours of television shows per week.

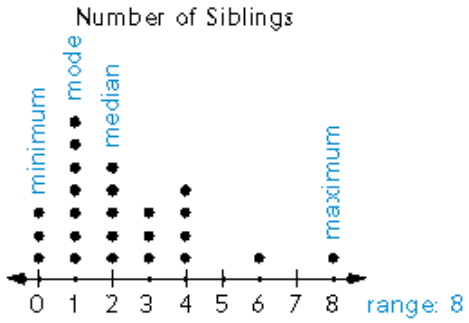
F. It takes me about _____ minutes to travel to school in the morning.

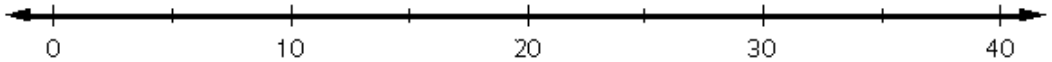
Briefly explain why these questions are not statistical questions.

You and your classmates will make dot plots of the data from the Math Message above. You will then try to figure out which dot plot, or mystery plot, goes with each statement in the Math Message.

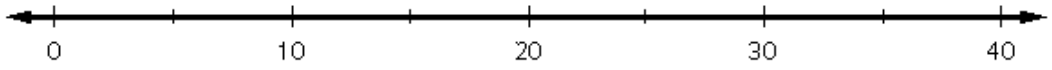
SRB 283

After the class has matched each mystery plot to its statement, mark the number lines below to show the data landmarks for the data collected for each statement: **minimum** (smallest value), **maximum** (greatest value), **range** (difference between maximum and minimum), **median** (middle value when data are ordered least to greatest), and **mode** (most frequent value or values).

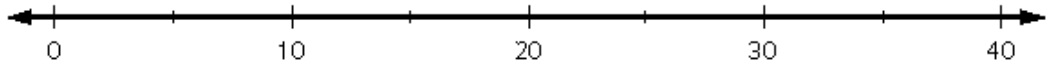




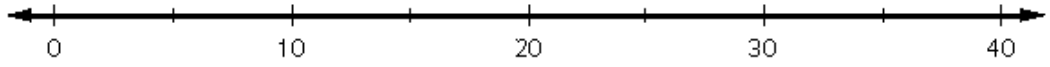
A. Shower/Bath Time (in min) Range: _____



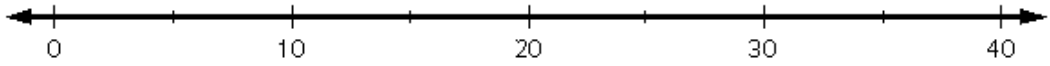
B. **Number of Letters in First, Middle, and Last Names** Range: _____



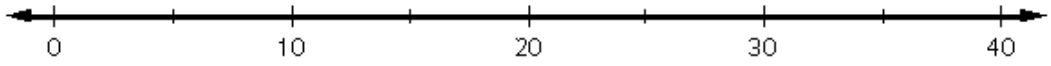
C. **Number of People Living in Home** Range: _____



D. **Length of Shoe (nearest cm)** Range: _____



E. **Hours of Television Shows Viewed per Week** Range: _____



F. **Travel Time to School (min)** Range: _____

Whole-Number Computation

Lesson 1-2

DATE TIME

Estimate and then solve.

1. 452 * 3

   Estimate: _____

   Solution: _____

2. 125 * 23

   Estimate: _____

   Solution: _____

3. 1,563 − 238

   Estimate: _____

   Solution: _____

4. 94,562 + 1,899

   Estimate: _____

   Solution: _____

5. 101 * 91

   Estimate: _____

   Solution: _____

6. 3,240 ÷ 12

   Estimate: _____

   Solution: _____

7. The stadium holds 93,721 people. There were 17,498 unsold tickets. How many seats were taken?

   Estimate: _____

   Solution: _____

8. There are 586 students graduating. If the school wants to divide them into 3 equal groups, how many students are in each group?

   Estimate: _____

   Solution: _____

Math Boxes

Lesson 1-2

DATE TIME

Math Boxes

1 Mr. Ringwald earned $3,500 from his apple orchard in the month of September. He paid $1,850 to cover his monthly bills. How much does he have left over? Fill in the circle next to the best answer.

- ○ $1,650
- ○ $1,350
- ○ $2,350
- ○ $1,750

SRB 32

2 Find all the factors and the first four multiples of 24.

Factors: _____

Multiples: _____

SRB 102, 108

3 Find the missing values.

a. 30 * _____ = 360

b. 30 * 50 = _____

c.

$$\begin{array}{r} \square \\ * \quad 8\,0\,0 \\ \hline 3\,2,\,0\,0\,0 \end{array}$$

d. 40 * 70 = _____

SRB 132

4 Without dividing, predict which choice will have the greater quotient.

A. 700 ÷ 75

B. 800 ÷ 54

Greater quotient: _____

SRB 113-114

5 **Writing/Reasoning** Explain why your answer to Problem 4 makes sense.