

Sample Lesson #1

1. On a busy day, the United States Postal Service processes 3^8 letters per second. How many letters is that?

2. Use the monthly rainfall data set to complete the items.

| Month | Rainfall (inches) |
|-------|-------------------|
| Jul. | 4 |
| Aug. | 3.5 |
| Sept. | 2 |
| Oct. | 4 |
| Nov. | 2.5 |
| Dec. | 2 |

3. Find the quotient: $\frac{2}{5} \div \frac{8}{10}$. Multiply to check your answer.

4. Study **Dot Plot J** (*Appendix*). How many rolls were recorded?

5. Find the house symbols on the coordinate plane. What are the coordinates for Tony’s house? What are the coordinates for Scotty’s house?

6. $375 \times 5 = ?$

7. Simplify. $4(2a + 4b)$

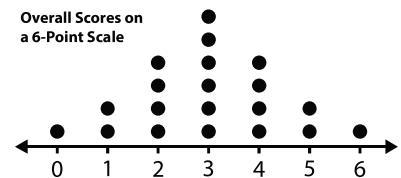
8. A supply store sells 5 rulers for \$2.00. What is the unit rate in cost per ruler?

| Lemon Juice (x) | Water (y) |
|-----------------|-----------|
| 4 | 6 |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |

9. Carol’s lemonade recipe calls for 1 C juice for every $1\frac{1}{2}$ C of water. Complete the table and plot the values.

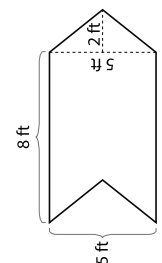
10. Use GCF and the distributive property to rewrite $15 + 45$.

11. Students were graded on a science fair project. The students’ scores are displayed on the dot plot. What is the shape of the data? (Find these words in the *Help Pages* if you’re not sure.)



12. $5,639 \div 82 = ?$

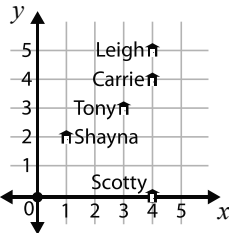
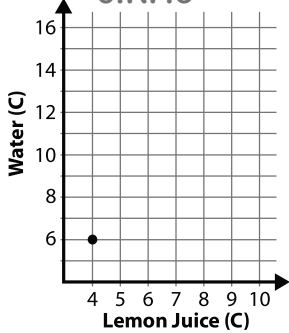
13. Kara is building a deck in the shape of a chevron. The size of the triangular cut-out on the bottom is the same as the size of the triangular projection on the top. Find the total area of the deck.



14. $41.62 + 89.316 = ?$

15. Write the ratio of mice to bananas. For every banana, there are _____ mice.



| | | |
|-------------------|---|---|
| <p>1. 6.EE.1</p> | <p>2. 6.SP.5</p> <p>Number of values _____</p> <p>Sum of all the values _____</p> <p>Mean _____</p> | <p>3. 6.NS.1</p> |
| <p>4. 6.SP.3</p> | <p>5. 5.G.1</p>  | <p>6. 5.NBT.5</p> |
| <p>7. 6.EE.3</p> | <p>8. 6.RP.2</p> | <p>9. 6.RP.3</p>  |
| <p>10. 6.NS.4</p> | <p>11. 6.SP.2</p> <p>A) symmetric</p> <p>B) skewed left</p> <p>C) skewed right</p> | <p>12. 6.NS.2</p> |
| <p>13. 6.G.1</p> | <p>14. 6.NS.3</p> | <p>15. 6.RP.1</p> |