

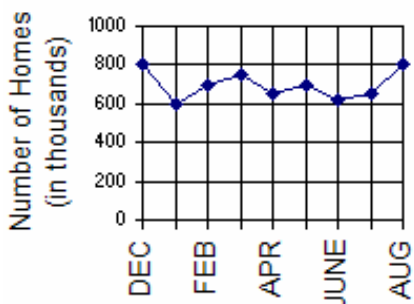


- Write the following in words:  
63,579,316,125
- Write the expanded notation for 7,084.
- Add:  $3,534 + 4,363$
- Subtract:  $6797 - 4629$
- Multiply:  $762 \times 45$
- Divide:  $5807 \div 38$
- A club has 702 members that are to be put into 18 equal groups. How many members will be in each group?
- Which of the following is true?  
 $|-9| \geq 10$        $7 \leq -189$   
 $-8 > -60$        $8 > -(-8)$
- Add:  $52 + 8.1 + (-50) + (-18.2)$
- Subtract:  $52 - (-31)$
- Multiply:  $(-8)(-5)(-100)(-7)$
- Solve for  $y$ :  $9158 = y + 7482$
- Simplify:  $5^2 \div (7 - 9 + 1)^3 \cdot 2 - 5$
- Find the prime factorization of 280.
- Which of the following numbers is divisible by 3? 11,111    5,555    444,444    8,888
- Reduce to lowest terms.  $\frac{94}{102}$
- Give the sum in simplest form.  $\frac{1}{6} + \frac{5}{12} + \frac{4}{9}$
- Give the difference in simplest form.  
 $15\frac{3}{8} - 14\frac{1}{4}$
- Give the sum in simplest form.  $27\frac{5}{8} + 17\frac{1}{8}$
- Give the product in simplest form.  $6\frac{1}{4} \cdot 7\frac{2}{3}$
- Give the quotient in simplest form.  $\frac{1}{8} \div 6\frac{1}{8}$
- Write as an improper fraction. 95.618
- Write in decimal notation.  $7\frac{63}{1000}$
- Round 4.369 to the nearest hundredth.
- Add.  $89.5 + 4.45 + 280 + 1.0076$
- Subtract.  $33.06 - 21.986$
- Bill saved \$960 for his vacation. When he returned home from his vacation, he had \$23.82. How much money did Bill spend on his vacation?
- Multiply.  $5.7 \times 4.69$
- Divide and round the quotient to the nearest ten-thousandth.  $128.04 \div 16.8$
- Find decimal notation for  $3\frac{1}{16}$ .
- Find the average of 7, 13, 6, 9, 11, and 5.
- Find the median of 2, 13, 15, and 8.
- Find the mode of 4, 12, 15, 4, 13, 15, and 15.

34. Solve for  $y$ :  $\frac{5y}{7} = \frac{34}{5}$

35. The following list reflects the temperature on the 5<sup>th</sup> of July over the past five years. What was the average temperature over the five year period? 90°F, 120°F, 96°F, 83°F, 99°F

36. Use the graph below to determine the months in which sales of new homes increased.



37. A vehicle travels 175.6 miles on 12 gallons of gas. How many miles per gallon (to the nearest hundredth) does the vehicle get?

38. Lena bought 9 tickets to an international food festival for \$62. How many tickets could she purchase with \$183?

39. Find decimal notation for 82.73%

40. Find decimal notation for  $\frac{700}{800}$ .

41. Find percent notation for  $\frac{5}{8}$ .

42. Food expenses take 23% of the average family income. If the average family makes \$1350 per month, how much is spent on food?

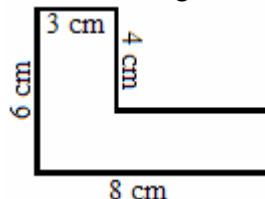
43. If an electric bill for last year was \$200 but increased to \$248 this year, what was the percent of increase? Round to the nearest tenth of a percent.

44. If there is a \$32 sales tax on a \$685 television set, what is the sales tax rate? Round to the nearest tenth of a percent.

45. What is the discount on a desk originally marked at \$1295 which is on sale at 23% off?

46. Find the total amount in an account if \$5000 is invested for 4 years at a simple interest rate of 12%.

47. Find the area of the figure shown below.



48. Find the area of a square with sides of 25 meters.

49. Find the area of a triangle, given that its height is 18 inches and its base is 36 inches.

50. Which of the following is **not** a true statement?

Zero cannot be divided by any real number,  
500% is more than 6,  $-230$  is less than  $-14$ , OR any whole number is also an integer.

## ANSWERS

1. sixty-three billion, five hundred seventy-nine million, three hundred sixteen thousand, one hundred twenty-five
2. 7 thousands+8 tens+4 ones
3. 7,897
4. 2,168
5. 34,290
6. 152 R 31
7. 39
8.  $-8 > -60$
9.  $-8.1$
10. 83
11. 28,000
12. 1,676
13.  $-55$
14.  $2^3 \cdot 5 \cdot 7$
15. 444,444
16.  $\frac{47}{51}$
17.  $1 \frac{1}{36}$
18.  $1 \frac{1}{8}$
19.  $44 \frac{3}{4}$
20.  $47 \frac{11}{12}$
21.  $\frac{1}{49}$
22.  $\frac{47,809}{500}$
23. 0.763
24. 4.37
25. 374.9576
26. 11.074
27. \$936.18
28. 26.733
29. 7.6214
30. 1.9375
31. 8.5
32. 10.5
33. 15
34. 9.52
35. 97.6
36. Feb, Mar, May, July, Aug
37. 14.63
38. 26
39. 0.8273
40. 0.875
41.  $62 \frac{1}{2} \%$
42. \$310.50
43. 24%
44. 4.7%
45. \$297.85
46. \$7,400
47.  $28 \text{ cm}^2$
48.  $625 \text{ m}^2$
49.  $324 \text{ in}^2$
50. 500% is more than 6.