

**Solve and check the following equations:**

1)  $-17 = -4y - 5$     2) check    3)  $-8x + 21 = -5x - 6$     check

5)  $-9c + 6(2c - 3) = -24$     6) check

7)  $\frac{y}{-3} - 6 = -13$     8) check    9)  $-0.4x - 3.2 = -5.82$     10) check

**Translate each the following sentences into a math equation; then solve the equation.**11) The quotient of some number and  $-4$ , decreased by 6 is equal to 5. Find the number.12) **Three times the sum** of a number and  $-8$  is the same as 12. Find the number.

**Use the following data to calculate mean, median, mode and range:**

$-8, 0, 2, -7, 5, -1, 3, \text{ and } -2$

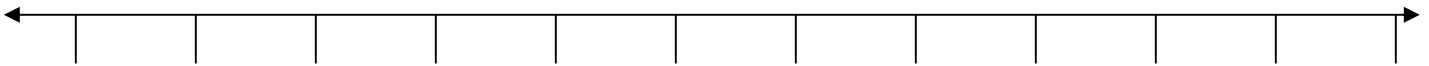
- 13) Mean                      14) Median                      15) Mode                      16) Range

17) Is  $y = -5$  a solution to the equation  $-3y + 3 = -12$ ? If not, then find the value of  $y$ .

18) Sam has sixteen fewer stamps than Joe. Together, they have 102 stamps. Write and solve an equation using balancing to find out how many stamps each person has.

19) Make a line plot using the data below of the number of people purchasing large screen TVs at an electronics store in the last two weeks. Start numbering the line with 4 and use intervals of 1.

11, 9, 14, 10, 4, 12, 10, 9, 12, 12, 11, 9, 13, 9



20) Name any outliers.

21) The perimeter of the shape is 57 meters. Find the length of each side by writing and solving an equation using balancing.

