

Solve and check the following equations:

1) $-24 = -3y + 12$ 2) check 3) $-5x - 16 = -3x - 4$ 4) check

5) $7a - 3(a - 6) = 34$ 6) check

7) $14 = 4 - \frac{y}{2}$ 8) check 9) $-2.3x - 1.8 = -6.4$ 10) check

Translate each the following sentences into a math equation; then solve the equation.

11) Four times the difference of a number and six is negative twelve. Find the number.

12) The sum of twice a number and eight is equal to negative four times the same number less ten. Find the number.

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

3, -7, 1, -4, 0, -6, 12, and -7

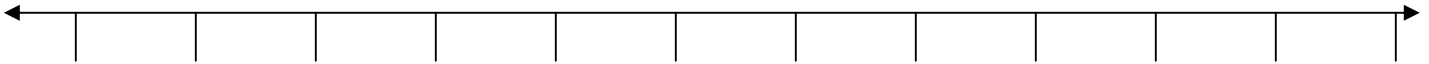
- 13) Mean 14) Median 15) Mode 16) Range

17) Is $y=4$ a solution to the equation $7y-13 = 15$? If not, then find the value of y .

18) Susan has three more purses than her friend Terry. Together, they have 27 purses. Write and solve an equation using balancing to find out how many purses each person has.

19) Make a line plot using the data below of the number of shovels owned by each person on their block. Start numbering the line with 0 and use intervals of 1.

2, 4, 1, 0, 2, 1, 3, 3, 5, 10, 1, 2, 2, 4



20) Name any outliers.

21) The perimeter of the shape is 71 feet. Find the length of each side by writing and solving an equation using balancing.

