Show all your work to receive credit and box or circle your final answers.

1) Perform the appropriate operations on each of the following.
   a) \(-8 - (-3)\)
   b) \(-5 + (-7) + 12 + (-3)\)
   c) \(\frac{-45}{5}\)
   d) \((-3.2)(-2.6)(7)\)

Evaluate each of the following expressions using the order of operations. Show all the steps to receive full credit.

2) \(-8\left[(-3)^2 + 4(2 - (-6))\right]\)
3) \(\frac{5\left[33 - (-3)^2\right]}{-5\left[3^2 - 2^2\right]}\)

4) Simplify by combining like terms. \(2(x + 3) - 4(5 - x)\)

5) Solve the equation: \(2x - 5 = x - 16\)

6) Solve the equation: \(\frac{5}{6}y = -30\)

7) Solve the equation: \(6.2x = 5.8 + 1.8x\)

8) Solve the equation: \(\frac{2}{3} + \frac{x}{4} = \frac{1}{6}\)

9) Solve the equation: \(-5(x - 2) = 16 + 3(x + 2)\)

10) Solve the formula, \(P = 2l + 2w\) for \(w\)

11) a) Solve the inequality: \(-3x + 4 > 10\)
    b) Graph the solution on the number line.
    c) Use interval notation to describe the solution.

Use algebra to solve the word problems below. Show all the steps to receive credit.
12) A bicycle path is 5 miles long. A man walks from one end at the rate of 3 mph. At the same time, a friend bicycles from the other end, traveling at 12 mph. In how many minutes will they meet?

13) How many gallons of a 25% salt solution must be mixed with 6 gallons of a 50% solution to obtain a 40% solution?