Equations – Review

Name _____
Period _____

No work.   No Credit.   No Kidding.

Solve: *A.4.A, A.4.B*

Solve each equation below. Write each step out as you solve.

1. $4x - 115 = 225$

2. $-5x + 13 = 3x + 85$

3. $-3(x + 5) = 12$

4. $5x - 4 + 3x = 12$

5. $-6(2x - 3) + 15 = 9$

6. $-7 (x - 3) = -14$

Set up and solve each scenario below to find the missing number.

7.   Ten more than three times a number is negative 14. Find the number. *A.4.A*

8.   The sum of 3 times a number and 17 is 5. What is the number?

9.   If Don subtracts 24 from one-half of his number he gets 0. What is Don's number?

There is at least one mistake made in each problem below. Identify all the mistake(s) and correctly
      solve each problem.

10. $-8x - 3 - 2x = -45$
     $-6x - 3 = -45$
     $-6x = -42$
     $x = -7$

11. $15 = 7a + 3 - a$
       $15 = 6a + 3$
       $18 = 6a$
       $3 = a$

12. $5(w + 3) + 3(w + 1) = 14$
     $5w + 8 + 3w + 4 = 14$
     $8w + 12 = 14$
     $8w = 2$
     $w = \frac{1}{4}$

13. $x + 3(2x - 4) = -19$
       $x + 6x - 12 = -19$
       $7x - 12 = -19$
       $7x = -7$
       $x = 0$

11. The area of a rectangle is 42 cm². Find the value of x if the length of the rectangle is 6 and the width is $(x + 2)$. *A.4.B*

Fill out the chart below to solve the problem above.

What is the problem asking you to find?	Is this a multi-step problem? If yes, how many steps will you need to solve?	What is the key information you need to solve?
Draw a picture.		**Set up an equation to solve the problem**
Solve the problem.		**Check your work.**

12. The length of a rectangle is $(x + 5)$ and the width is $(x - 3)$. Find the value of x if the perimeter of the rectangle is 40 cm. *A.4.B*

Fill out the chart below to solve the problem above.

What is the problem asking you to find?	Is this a multi-step problem? If yes, how many steps will you need to solve?	What is the key information you need to solve?
Draw a picture.		**Set up an equation to solve the problem**
Solve the problem.		**Check your work.**