

Name: _____

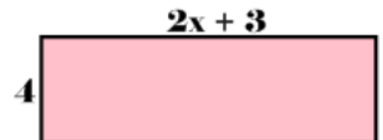
Date: _____

Pre-Algebra – Simplifying Expressions and Solving Equations Review

AIM: How can we review for our equations test?

1. $\frac{2}{5}x = 20$	2. $-2(3x - 10) + 6(2x + 1) = 56$
3. $2(x - 10) = 3x + 3x + 8$	4. $9 - (4x + 5) = 12$
5. $4(6x - 2) = 16x + 8$	Check for #5

6.) a.) The area of the given rectangle is 60 square units. Find x.



b.) What is the length of the rectangle?

7.) The perimeter of the rectangle above is 62 units. Find x.

8.) Find three consecutive integers whose sum is 246.

9.) If x is the first consecutive even integer, what is the fourth consecutive even integer?

Word Problem Applications

For each problem, (i) define your variable, (ii) write your equation, (iii) solve, (iv) write answer

14.) Translate into an equation and solve: Seven less than two times a number is 93.

15.) Will rented a bike from the bike store.

- He spends \$5 per hour.
- The initial fee of the bike is \$18.
- He spends a total of \$48.

For how many hours did he rent the bike? Write an equation and solve.

17.) Bill has \$120 and is earning \$10 per day. John has \$150 and is earning \$4 per day. In how many days, d , will both Bill and John have the same amount of money?

18.) Helen needs to rent a moving truck. Company A charges a rate of \$20 plus \$40 per day and Company B charges \$60 plus \$20 per day. For what number of days is the cost the same?

19.) The perimeter of the following pentagon is 15.5cm. If one side of the pentagon measures 3.5cm then find the value of the variable, x .

