Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #:\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_

**3.1E Perimeters and Areas in Algebraic Expressions \_Classwork**

*Objective: use combing like terms and distributive property to find perimeters and areas.*

*HW: 3.1E worksheet*

1. Find the algebraic expressions for the perimeter and area of each rectangle.



Perimeter: \_\_\_\_\_\_\_\_\_\_ Perimeter: \_\_\_\_\_\_\_\_\_\_ Perimeter: \_\_\_\_\_\_\_\_\_\_

Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Find the algebraic expressions for the perimeter and rea of these rectangles.



Perimeter: \_\_\_\_\_\_\_\_\_\_ Perimeter: \_\_\_\_\_\_\_\_\_\_ Perimeter: \_\_\_\_\_\_\_\_\_\_

Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Bob mowed (2x2 + 5x – 3) yards on Monday, (4x – 7) yards on Tuesday, and (3x2 + 10) yards on Wednesday.
	1. How many yards did he mow in the three days?
	2. If Bob mowed 14x2 + 12x – 3 yards total for the entire week, how many yards did he mow during the rest of the week?
2. Molly has (4x + 10) dollars and Ron has (20 – 5x) dollars.
	1. How much money do they have altogether?

* 1. How much more money does Molly have than Ron?
1. Ross has (8x – 5) tickets for Chuck E Cheese. He is going to play today and wants to buy a prize that is (15x + 1) tickets. How many tickets must he win to have enough tickets to buy the prize?

EXTRA CREDITS

1. Find the algebraic expressions for the perimeter of these shapes.



Perimeter: \_\_\_\_\_\_\_\_\_\_ Perimeter: \_\_\_\_\_\_\_\_\_\_ Perimeter: \_\_\_\_\_\_\_\_\_\_