Unit 4 – Algebra WH Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Design Recipe Notes Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_

For each of the following word problems, write the Contract, Examples and Definition.

1. Define a function ‘purple-star’, that takes in the size of the star and produces an outlined, purple star of the given size. (Use the variable ‘size’.)

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1. Define a function ‘spot’, that takes in a color and produces a solid circle of radius 50, filled in with that color. (Use the variable ‘color’.)

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1. Define a function ‘average’, which takes in two numbers and produces their average. (Use the variables ‘num1’ and ‘num2’.)

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1. A company logo is a word drawn in big, red letters (size 80) and rotated. Define a function ‘logo’, which takes in a company name and a rotation, and produces a logo for that company. (Use the variables ‘name’ and ‘degrees’.)

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You try. Use the front of the paper to help you write the following Design Recipes.

1. Define a function ‘teal-dot’, that takes in the radius of a circle and produces a solid, teal circle of the given radius. (Use the variable ‘radius’.)

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1. Define a function ‘box’, that takes in a color and produces a solid square of size 40, filled in with that color. (Use the variable ‘color’.)

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1. Define a function ‘double’, which takes in two numbers, adds them together and then multiplies that answer by 2. (Use the variables ‘num1’ and ‘num2’.)

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1. Define a function ‘area’, which takes in a length and a width and multiplies them together. It will produce an outline of a turquoise rectangle with the values given. (Use the variables ‘length’ and ‘width’.)

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