Name: _____ Hour: _____
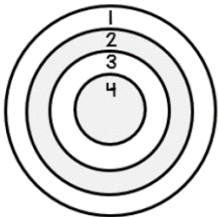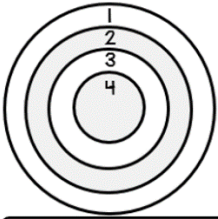
Standard: A-REI.3. Solve linear equations in one variable, including equations with coefficients represented by letters.

/4

Don't forget to assess yourself!

Directions: Solve the equation. Show work.

1.) $5x - 2(x + 2) = -(2x + 15)$ 2.) $2y = 3y - 20$

Name: _____ Hour: _____
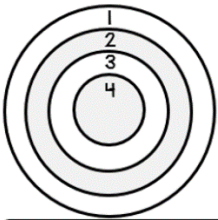Standard: A-CED.4. Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations.

/4

Don't forget to assess yourself!

Directions: Solve the formula for the indicated variable.

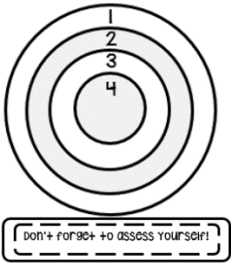1.) $V = lwh \ for \ w.$

2.) $A = \frac{1}{2}bh \ for \ h$

Name: _____ Hour: _____
Standard: A-CED.4. Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations.
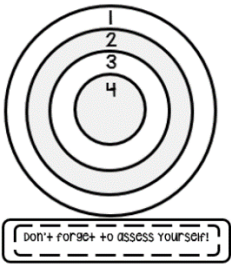
/4

Don't forget to assess yourself!

Standard: A-REI.1. Explain each step in solving a simple equation as following from the equality of umbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.

/4

Don't forget to assess yourself!

Directions: Solve the equation. Justify __each step__ you take.

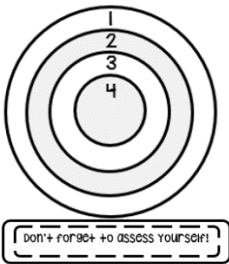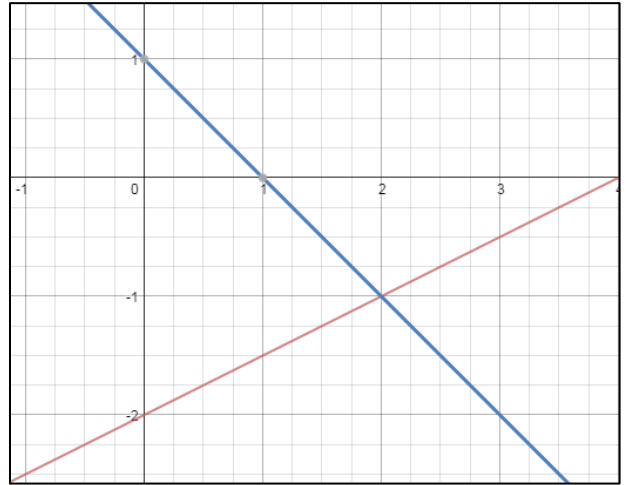1.) $6x = 4(x + 5)$

2.) $\dfrac{8}{b+10} = \dfrac{4}{2b-7}$
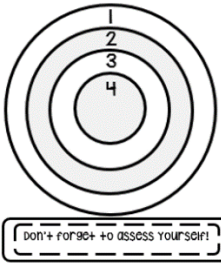
Standard: A-REI.11. Explain why the x-coordinates of the points where the graphs of the equations y = f(x) and y = g(x) intersect are the solutions of the equation f(x) = g(x); find the solutions approximately, e.g., using technology to graph the functions, make tables of values, or find successive approximations. Include cases where f(x) and/or g(x) are linear, polynomial, rational, absolute value, exponential.
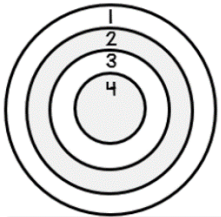
/4

This is the graph of $f(x) = \frac{1}{2}x - 2$ and $g(x) = -x + 1$.

1.) Circle and state the solution to the equation $\frac{1}{2}x - 2 = -x + 1$

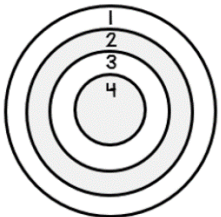2.) Show algebraically why your answer in question 1 is the solution to the equation.
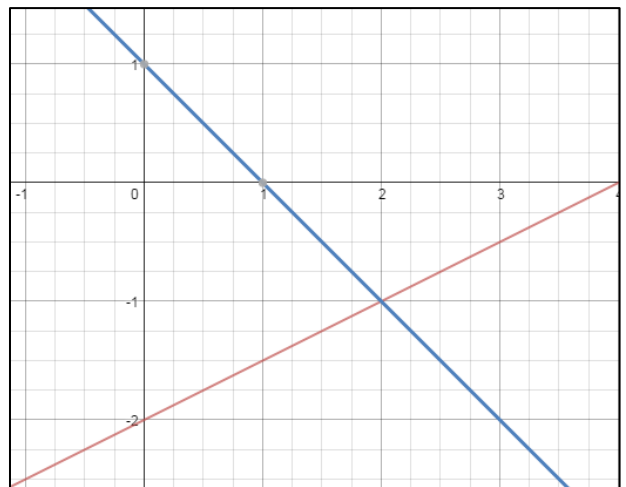
Name: _____ Hour: _____
Standard: A-CED.1 Create equations in one variable and use them to solve problems.

/4

Directions: Write and solve an equation to determine the how many shirts the company can create.

Ben and his company want to make and sell shirts. They must rent the equipment which costs $125, and each shirt will cost them $3 to create. The company only has $500 to spend.