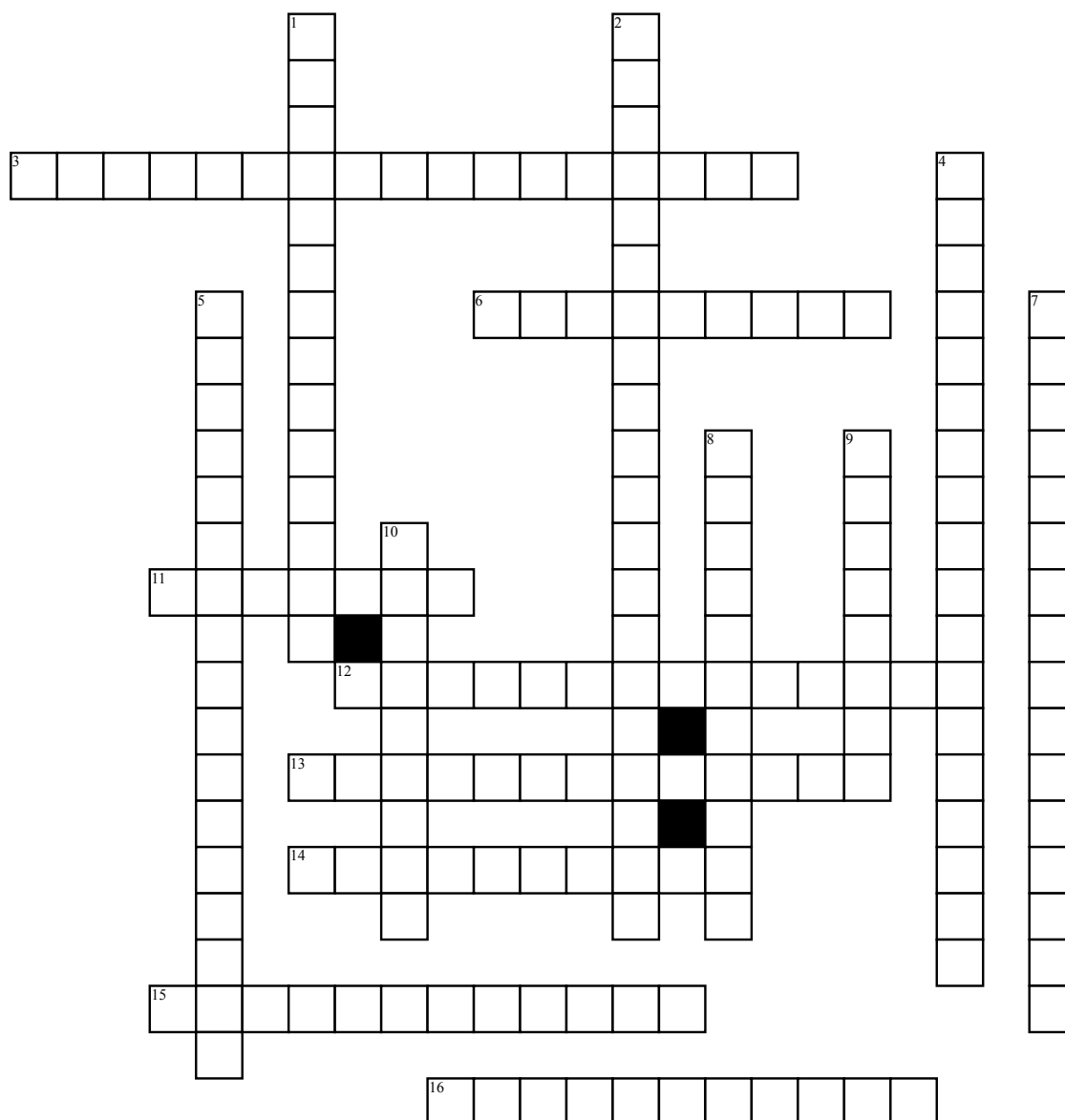# chapter 3 vocab

Across

3. eliminate one of the variables in a system of equations by adding or subtracting the equations

6. a system of inequalities that forms a region that is open

11. a region of the graph of a system of constraints is a polygonal region

12. The graph of the constraints in a linear programming problem

13. Gives the location of a point in space

14. The system has at least one solution

15. The system has no solutions

16. The equations of the system are unique

Down

1. the point at which the income equals the cost

2. A system made up of two inequalities with two variables

4. a method of solving a system of linear equations in which one equation is solved for one variable in terms of the other

5. a set of at least 2 equations with at least 2 variables

7. Process used to do optimization

8. A system of linear inequalities that limit the quantity of the variables

9. Finding the maximum or minimum value of some quantity

10. One equation of the system contains all the solutions to the other equation in the system