Name: _____

Chickens and cages.

The Problem.

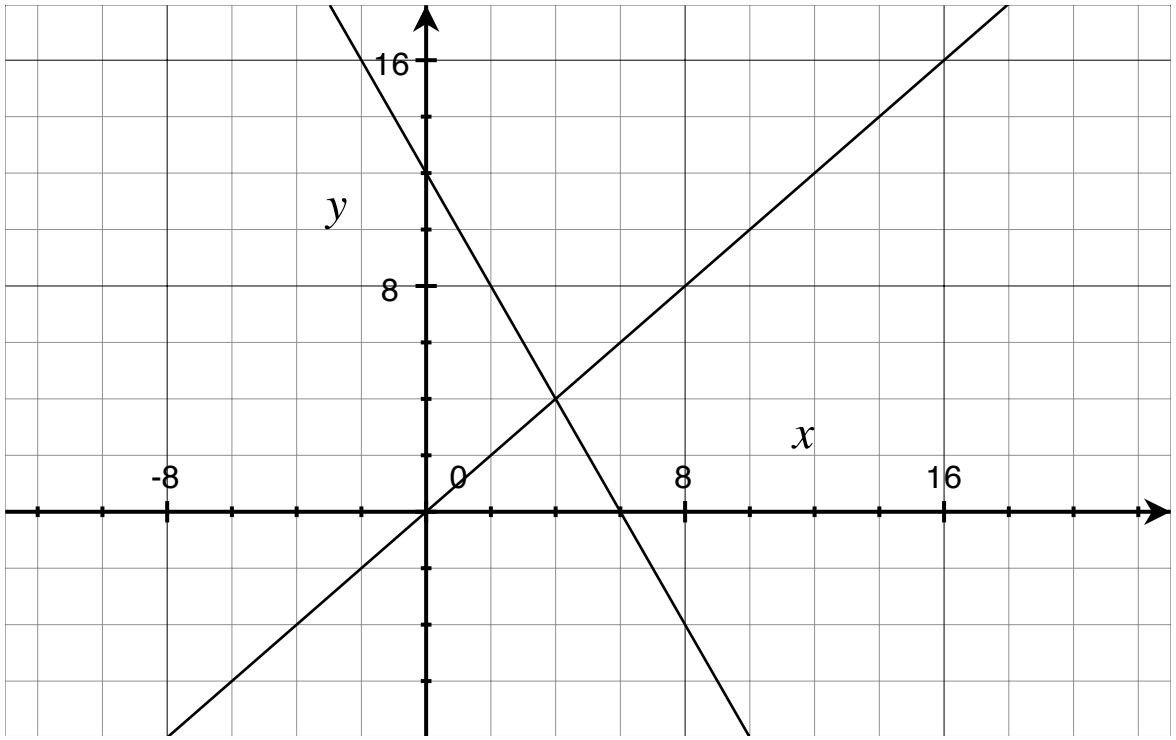
You want to buy x chickens and y cages. But:

- You need to buy more cages than chickens.
- You only have \$12; chickens cost \$2 and cages cost \$1.

You want to have as many chickens as possible. How many chickens and cages should you buy?

The Solution.

The solution has something to do with the following graph:



Here's a hint:

- Shade in the region where there are more cages than chickens.
- Shade in the region where you can afford the combination of chickens and cages.