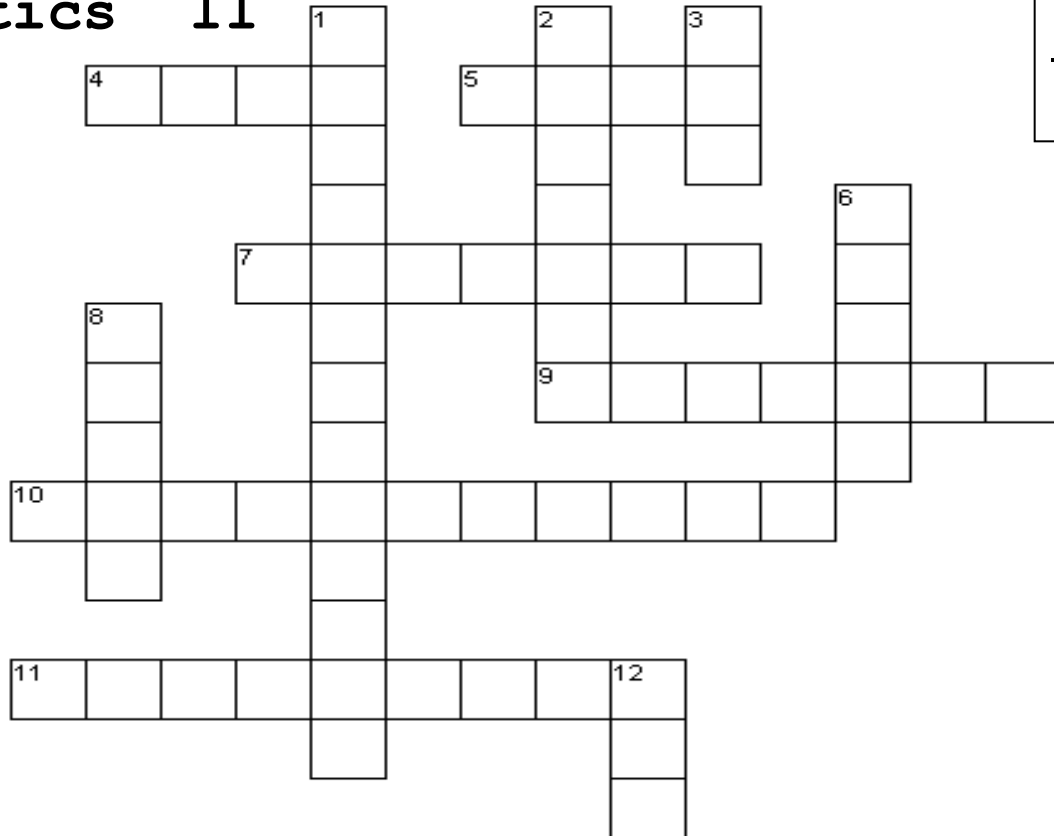# Probability & Genetics II

Name/Period: _____

20

12

Across

4. The _____ trials you run in an experiment the better the experiment.

5. A _____ contains the instructions for how to make proteins.

7. This is when the nucleus of a cell splits in two pieces.

9. These are body cells of an organism that has the full number of chromosomes.

10. This is the likelihood that a specific event will occur.

11. This is a picture of all of an organism's chromosomes lined up.

Down

1. This happens when a sperm cell & an egg cell come together.

2. This is the process that creates a sex cell. The number of chromosomes gets cut it half.

3. These cells have half the normal number of chromosomes.

6. If the first throw of a coin is heads, the chance of a second throw of heads is _____ percent.

8. This is the male sex cell.

12. This is the female sex cell.

Probability:

I am thinking of a number between 1 and 10. What is the probability that you will guess the exact number? _____ (2pts)

Golf Scenario:

My golf bag contains lots of golf tees. 45 of the tees are white. 20 are green. 10 are Red. 5 are purple. 3 are yellow. 9 are orange and 8 are blue.

- ❑ When I step up to the first tee box, what are the chances that I'll pull out a plain white tee? _____ (1pt)

- ❑ Assuming I do not break my first tee, what are the chances that I'll pull either a yellow, orange, or blue tee on the second tee? _____ (1pt)

- ❑ On the 18th tee box, what are the chances that I will NOT pull out a lucky purple tee (assuming I haven't broken any all day long)? _____ (1pt)

Boys & Girls

A married couple is planning on having kids.

- ❑ What are the chances that their first child will be a male? _____ (1pt)

- ❑ What are the chances that their third child will be a girl if their first two children were boys? _____ (2pt)