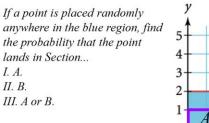
Name

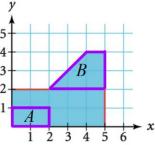
Date\_\_\_\_\_

#### **Advanced Algebra**

#### Unit 8: Probability- Assignment #9 Geometric Probability

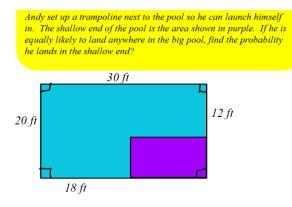
# ONE:





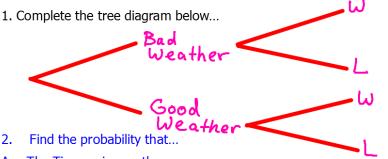
*IV. What is the probability that the point doesn't land in A or B?* 

## TWO:



### THREE:

John's baseball team, the Tigers, plays well in sloppy conditions. If the weather is bad, they have a 70% chance of beating their rivals, the Lions. If the weather is good, they have a 50% chance of beating the Lions. They play two games against the Lions on Saturday, and there's an 80% chance the weather will be bad.



- A. The Tigers win exactly one game.
- B. The Tigers lose both games.

2. Find the sum of the probabilities in your tree diagram, and explain why your answer makes sense.

3. Challenge: Suppose the Lion's and Tigers played 6 games, and the weather is bad. Find the probability that the Tigers lose at least one game. (Hint: do not try to draw a tree diagram.)

### FOUR:

