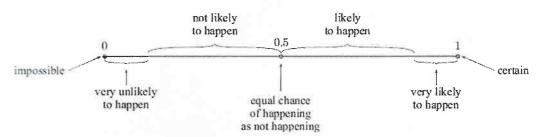
Name: ______Date: _____

An impossible event which has 0% chance of happening is assigned a probability of 0.

A certain event which has 100% chance of happening is assigned a probability of 1.

All other events can be assigned a probability between 0 and 1.

The number line below shows how we could interpret different probabilities:



Problem 1.

A ticket is *randomly selected* from a basket containing 3 green, 4 yellow, and 5 blue tickets. Determine the probability of getting:

a a green ticket

b a green or yellow ticket

an orange ticket

d a green, yellow, or blue ticket.

Problem 2.

An ordinary 6-sided die is rolled once. Determine the chance of:

- a getting a 6
- b not getting a 6
- c getting a 1 or 2
- d not getting a 1 or 2

Problem 3. Were there any complementary events in the Problem 2? Which ones?

Two events are complementary if exactly one of the events must occur. If A is an event, then A' is the complementary event of A, or 'not A'.

$$P(A) + P(A') = 1$$