# Math 7 Strategies 1 

Pletcher<br>September Lessons - Probability

## Unit Objectives - Math 7 PSSA

## ASSESSMENT ANCHOR

M07.D-S. 3 Investigate chance processes and develop, use, and evaluate probability models.

DESCRIPTOR
M07.D-S.3.1 Predict or determine the likelihood of outcomes.

ELIGIBLE CONTENT
M07.D-S.3.1.1 Predict or determine whether some outcomes are certain, more likely, less likely, equally likely, or impossible (i.e., a probability near 0 indicates an unlikely event, a probability around $1 / 2$ indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event).

## ASSESSMENT ANCHOR

M07.D-S.3 Investigate chance processes and develop, use, and evaluate probability models.

## DESCRIPTOR

M07.D-S.3.2 Use probability to predict outcomes.

## ELIGIBLE CONTENT

M07.D-S.3.2.1 Determine the probability of a chance event given relative frequency. Predict the approximate relative frequency given the probability.
Example: When rolling a number cube 600 times, predict that a 3 or 6 would be rolled roughly 200 times but probably not exactly 200 times.
M07.D-S.3.2.2 Find the probability of a simple event, including the probability of a simple event not occurring.
Example: What is the probability of not rolling a 1 on a number cube?
M07.D-S.3.2.3 Find probabilities of independent compound events using organized lists, tables, tree diagrams, and simulation.

## Rules of Probability to remember

Probability is between 0 (unlikely) to 1 (likely)
Use probability percent TIMES a set of trials to predict
"Not" is (1-Probability) as a shortcut to ADDING up each individual ones for simple probability. Studyisland.com has this as Simple Probability section.

Compound probability is multiplying events together.

## Week Sept 11 Lesson Overview

9/11 Monday: Review Spinner Bingo Notes - Play a few rounds
https://www.nctm.org/adjustablespinner/
9/12 Tuesday Use a GROUP Session of Studyisland Probability Selections for notes.
9/13 Wed. Finished Group Session and started individual sessions on 3 sections.

Approximate Probability
( 10 items \& 70\%)
M07.D-S.3.2.1

Probability of Simple Events ( 10 items \& 70\%)
M07.D-5.3.2.2

9/14-15 We reviewed individual session but continued to improve scores by redoing sessions that fell below 70\%

## Week Sept. 18 Lesson Overview - use studyisland.com

Monday: 2nd Group Class Session with the "Approximate Prob." as this was the hardest section. Each student gets a hardcopy of problems to write down methods, answers, and additional notes for these.

Tuesday: Students continue to do the individual sessions to get the best score on the Approximate Probability.

Wednesday: Individual Session on Compound Probability on studyisland.com
Thursday: See next slide on activity lesson "Evaluating Probability Events"
Friday: No Class as Powerpuff Game for Homecoming

## Thursday Activity:

Students begin by completing 1st page of Evaluating Statements about Probability "Are they Correct".

Review answers together as a class.
Continue with the 2 bags of jellybean exploration question and then true and false questions in groups. Finish by completing the "revisit" worksheet. Link from https://www.map.mathshell.org/lessons.php?unit=7415\&collection=8

Sample:
2. Susan claims:

If a family has already got four boys, then the next baby is more likely to be a girl than a boy.


Is she correct? Explain your answer fully:

