

# Math 7 Strategies 1

Pletcher  
Week Sept 30-Oct 4 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  $\frac{1}{2}$  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.

## Week Sept 30-Oct 4

Monday - Review and make test corrections on Thursday Quiz

- Nerds Sampling Collect Data (record number of nerds, divide by size and color --discuss the probability rules in notes)
- Use a group studyisland worksheet to guide notes

Tuesday - Individually complete studyisland session on understanding probability

Wednesday - Notes on Approximating probability with a group session worksheet off studyisland

Thursday - Notes on SIMPLE probability with a group session worksheet off studyisland

Friday - Students complete individual sessions off studyisland.com for sections c-e

# Probability - Studyisland sections

Monday - Tuesday: Will use section “c”

Wednesday: Will use section “d”

Thursday - Friday: Will use section “e”

c. Understanding Probability	10 Items & 70%	M07.D-S.3.1.1
d. Approximate Probability	10 Items & 70%	M07.D-S.3.2.1
e. Probability of Simple Events	10 Items & 70%	M07.D-S.3.2.2
f. Compound Events	10 Items & 70%	M07.D-S.3.2.3

# Examples from studyisland.com

The probability of randomly selecting a white flower from a garden that has green, pink, yellow, and white flowers is 12%.

Which of the following describes the likelihood of selecting a white flower?

- ☐ **A.** unlikely
- ☐ **B.** neither unlikely nor likely
- ☐ **C.** likely

Miss Nestor is randomly passing out books to her students for free reading time. In her book basket, she has 8 mysteries, 4 historical fiction novels, and 8 biographies. If there are 10 students in Miss Nestor's class for free reading time today, which of the following is the best prediction of the number of students who will receive historical fiction novels for free reading time?

- ☐ **A.** 4
- ☐ **B.** 2
- ☐ **C.** 5
- ☐ **D.** 3