# Name

##

##  Grade 3 Math Extension Menu

**Concept and/or Topic: Probability**

**Directions: Choose** a learning activity from one square to complete. **Circle**the number of the learning activity you choose. If you choose the square, “Write your idea here,” please see the teacher for approval.

**Turn** inthis paper with your work.

|  |  |
| --- | --- |
| 1. **Create** a tri-fold probability booklet. **Label** and **illustrate** the front flap as your cover**.** **Label** the other sections as *certain*, *equally likely, less likely, most likely and impossible.* **List** examples of each type of event in the correct section. **Illustrate** your tri-fold. | 1. **Design** a #2 spinner that is ¼ red and ¾ blue. **Complete** the *More Spinners* activity. **Write** about the results.

 |
| 1. **Complete** the*Roll Two Dice* activity. **Determine** and **explain** in writing why you believe you got the results you did.

 | 1. **Invent** and **name** a game using spinners, dice or cards that would be equally likely for any player to win. **Write** directions for your game. **Test** it with a partner.

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**Teacher Resource Page**

Grade 3 Math Extension Menu

**Concept and/or Topic: Probability**

**Intended Purpose: Culminating Activity and/or Extension Activity**

**Standard(s) and Indicators Addressed:**

Box 1: MA.300.50.10 Use words (likely, certain, equally likely, more likely, less likely, most likely, least likely, and impossible) to express the probability of a single event (e.g. a spinner with 4 equal sections labeled A, A, B, C: A is more likely than B)

Box 2: MA.300.50.11 Conduct an experiment and make a prediction based on the outcomes of the experiment

Box 3: MA.300.50.11 Conduct an experiment and make a prediction based on the outcomes of the

 experiment

Box 4: MA.300.50.10 Use words (likely, certain, equally likely, more likely, less likely, most likely,

 least likely, and impossible) to express the probability of a single event (e.g. a spinner with 4 equal sections labeled A, A, B, C: A is more likely than B)

**Organizational Tips:**

Box 1: See Teacher Sample of Probability Tri-Fold. Create a sample of a two-sided tri-fold for student reference.

Box 2: Duplicate pages 178-179 from Math by All Means: Probability Grades 1-2 by Bonnie Tank for student use. Refer to page 177 to view #2 spinner face. Provide one brad for each student. Duplicate enough copies of *Spinner Templates* for each student to have one spinner. Note that it is more challenging for students to create their own spinners rather to be given the #2 spinner.

Box 3: Duplicate pages 181-182 from Math by All Means: Probability Grades 1-2 by Bonnie Tank for student use. Provide dice.

Box 4: Provide spinners, dice or playing cards.

### Probability Tri-fold

**Front View**

|  |  |  |
| --- | --- | --- |
| **Certain** | **Equally Likely** | **Less Likely** |

**Back View**

|  |  |  |
| --- | --- | --- |
| **Most Likely** | **Impossible** | Cover (Title, Name of Student & Illustration) |

**Spinner Templates**