




Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

## Dice experiment

Roll two dice. Add the two numbers to get the total.

### 1 Work assignments

1. Think about which totals are possible and write them in the table in the "Total" row.
2. Guess which values are **certain (c)**, **possible (p)**, **impossible (ip)**, **likely (l)**, and **unlikely (ul)**, and write your guesses in the table.
3. Roll the dice 50 times and write down your results in the table (tally sheet).

<b>Total</b> 												
<b>Guess</b> 												
<b>Result</b> 												

4. Compare your results with your guesses. Which total value comes up the most in 50 rolls?
5. Based on your results, fill in the missing words using the words **certain**, **possible**, **impossible**, **likely**, or **unlikely** and the number of possibilities **0**, **1**, **2**, **3**, and **6**.

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## 6. Cloze test

How many dice combinations are there for the total?

Fill in the first blank in each sentence with one of the words: certain – possible – impossible – likely – unlikely.

In the second blank in each sentence, write the number of possibilities.



It is \_\_\_\_\_ to roll a total of 7 because there are \_\_\_\_\_ possibilities.

It is \_\_\_\_\_ to roll a total of 11 because there are \_\_\_\_\_ possibilities.

It is \_\_\_\_\_ to roll a total of 1 because there are \_\_\_\_\_ possibilities.

It is \_\_\_\_\_ to roll a total of 2 because there is \_\_\_\_\_ possibility.

It is \_\_\_\_\_ to roll a total of 4 because there are \_\_\_\_\_ possibilities.

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7. **For fast students:** If you are finished with your experiment, think about and write down all possible combinations of two dice.

