



## Practice – Part 1

**Instructions:** Answer each of the following practice questions on a separate piece of paper. Step by step solutions are provided under the Solutions tab. You will learn the material more thoroughly if you complete the questions before checking the answers under the Solutions tab in Moodle.

1. Four LEGO® blocks are in a pile.

One LEGO® block is randomly chosen.



- What are the odds of choosing a red LEGO® block? Express the answer as a ratio in lowest terms.
  - What are the odds of choosing a blue LEGO® block? Express the answer as a ratio in lowest terms.
2. Campbell is playing a game that requires him to roll a 4 on a six-sided die. He considers his chance of success.
- Calculate the probability of rolling a 4 on a six-sided die.
  - State the odds of rolling a 4.



3. In a pile of 35 buttons, there are 11 green buttons, 6 yellow buttons, 6 light blue buttons, and 12 dark blue buttons.
- If one button is randomly selected, what is the probability that it will be green? State the answer to three decimal places.
  - What are the odds of randomly selecting a green button from the pile?
  - What are the odds of randomly selecting a yellow button from the pile?

