Probability and Combinatorics
MCAS Worksheet 1

Name _____

1 Four distinct points are shown on the number line below.

Mark your answer here: 1. Ⓐ Ⓑ Ⓒ Ⓓ

How many distinct line segments have two of these points as endpoints?

A. 3

B. 6

C. 9

D. 12

2 A stadium has seats that are arranged into sections. In each section, the seats are arranged into rows. There are 11 sections, 7 rows in each section, and 10 seats in each row.

Mark your answer here: 2. Ⓐ Ⓑ Ⓒ Ⓓ

At a baseball game in the stadium, all of the seats are occupied. A seat will be chosen at random, and a prize will be awarded to the person sitting in that seat. If Hoda is sitting in one of the seats, what is the probability that she will win the prize?

A. $\frac{1}{770}$

B. $\frac{3}{770}$

C. $\frac{1}{28}$

D. $\frac{3}{28}$

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3 Lamanda is playing a game using a game piece in the shape of a regular triangular pyramid. Each of the four congruent faces of the pyramid is a different color: red, blue, green, or yellow. If Lamanda tosses the game piece 60 times, how many times is red **most likely** to be the color facing down?

Mark your answer here: 3. Ⓐ Ⓑ Ⓒ Ⓓ

A. 4

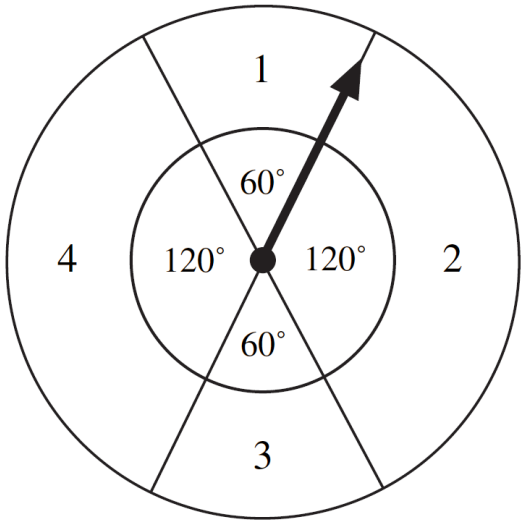
B. 15

C. 30

D. 45

4 The drawing below represents a spinner used for a game.

Mark your answer here: 4. Ⓐ Ⓑ Ⓒ Ⓓ



If the arrow is spun 100 times, which of the following is the **most likely** number of times it will land on the space labeled 1?

A. 17

B. 25

C. 33

D. 40

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5 Which of the following is closest to the value of $\sqrt{72}$?

Mark your answer here: 5. Ⓐ Ⓑ Ⓒ Ⓓ

A. 8.1
B. 8.5
C. 8.9
D. 9.3

6 Angelo placed 5 CDs into his CD player. There are 12 songs on each CD.

Angelo set his CD player to select songs in a random order. What is the probability that the first song the CD player selects will be the 4th song on the 3rd CD?

Write your answer here: