



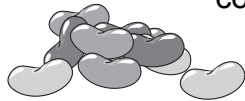
# MONTHLY CHALLENGE #2



Name \_\_\_\_\_

Calculators should not be used on this challenge.

1. \_\_\_\_\_ blue  
jellybeans Sami's Candy Store has six bins containing jellybeans. These bins contain 10, 13, 19, 8, 13 and 9 blue jellybeans. What is the mean (average) number of blue jellybeans per bin?



2. \_\_\_\_\_ Jacque and Emily work in a shoe store. Emily was trying to carry too many boxes and dropped all of them, spilling four different pairs of shoes into a pile on the floor. Jacque picked up one shoe from the pile, and then Emily picked up one shoe from the pile. What is the probability that the shoe Emily's holding does not belong in the same box as the shoe Jacque's holding? Express your answer as a common fraction.

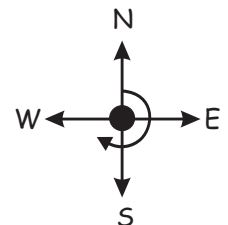


3. \_\_\_\_\_ farthings In the 19<sup>th</sup> century, Britain used a money system which included pence, farthings, shillings and pounds. The following conversions were used:

$$\begin{aligned} 4 \text{ farthings} &= 1 \text{ pence} \\ 12 \text{ pence} &= 1 \text{ shilling} \\ 20 \text{ shillings} &= 1 \text{ pound} \end{aligned}$$

How many total farthings were equivalent to 1 pound and 5 pence?

4. \_\_\_\_\_ A figure skater is facing north when she begins to spin to her right. She spins 2250 degrees. Which direction (north, south, east or west) is she facing when she finishes her spin?



5. \_\_\_\_\_ Suppose that  $a * b = a + b + ab$ . Therefore,  $2 * 3 = 2 + 3 + 2(3) = 11$ . If  $\square * 1 = 5$ , what value should be placed in the  $\square$ ?