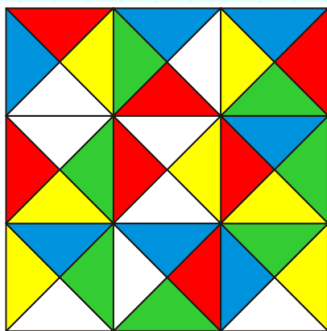


Probability: Sample Spaces,
Simple and Complementary Events

- 1) When Goldilocks visits the home of the Three Bears, she can choose to eat from Papa Bear's bowl, Mama Bear's bowl, or Baby Bear's bowl. She can also choose to eat her porridge plain, or with strawberries on top, or with blueberries on top. Create a tree diagram to determine how many different ways Goldilocks can eat her porridge. How many ways did you find?

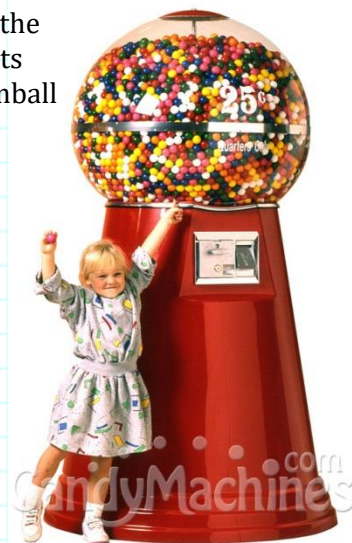
- 2) A dart is thrown at the target shown. Assuming the dart hits the target, what is the probability that the dart will land on a white section of the target?



- 3) What is the probability that the dart will land on a section of the target that is not white?
- 4) Axel has 3 red folders, 2 blue folders, and 1 green folder in his backpack. If he randomly selects a folder from his backpack without looking, what is the probability that the folder will be green?

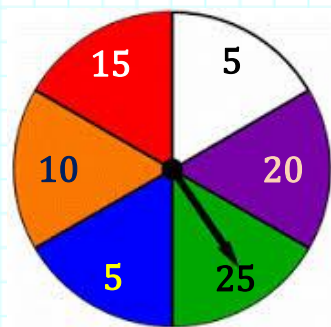
- 5) A 25¢ gumball machine is filled with gumballs. The table below shows the colors and the number of gumballs that are in the machine. If Olivia puts a quarter in the machine, what is the probability that she will get a gumball color other than white?

| Gumballs | Number |
|----------|--------|
| Blue | 35 |
| Red | 5 |
| Green | 15 |
| White | 20 |
| Yellow | 25 |



- 6) There are 8 marbles in a bag. These include red, blue, and green marbles. The probability of drawing a red marble is equal to the probability of drawing a green marble. There are more red marbles than blue marbles in the bag. How many marbles of each color are in the bag?

Use the fair spinner below to answer questions 7-10



- 7) What is the probability of spinning a 5?
- 8) What is the probability of spinning anything other than a 5?
- 9) What is the probability of spinning a multiple of 10?
- 10) What is the probability of spinning the GCF of 10 and 25?