

The instructor will then link the definition of complimentary events to the next activity, Two Dice Throw. The blank charts will be handed out. The class will talk predict what will happen with the data. This time, the students will have twelve throws using two die. They will track the results on their charts. The instructor will tally results for the whole class on the overhead. The group will discuss the similarities and differences between the group chart and the paired student charts, and they will speculate reasons for the patterns observed in the data.

Students will practice probability at home using the There is a High Probability You Will Have Homework Tonight! handout. Review answers the next day in class.

Assessment/Evidence (based on outcome)
SAMS
Homework

## Teacher Reflection/Lesson Evaluation

Not yet completed.

## Next Steps

## Technology Integration

## Purposeful/Transparent

The teacher provides definitions and examples of the kinds of probability students will encounter during this lesson.

## Contextual

Students are asked to relate to probability problems that might occur in everyday life.

## Building Expertise

Students are beginning to use data to analyze outcomes and determine favorable outcomes in various situations.

## SINGLE DIE THROW

| FACE SHOWING | CORRESPONDING <br> FREQUENCY |
| :---: | :---: |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |



## TWO DICE THROW

| SUM OF FACES | CORRESPONDING FREQUENCY |
| :---: | :--- |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |
| 7 |  |
| 9 |  |
| 10 |  |
| 12 |  |
| 11 |  |



## THERE IS A HIGH PROBABILITY YOU WILL HAVE HOMEWORK TONIGHT!

1. Find the probability of drawing a green marble out of a bag containing 9 red marbles, 15 blue marbles, and 12 green marbles.
2. A board game manufacturer realized that of the 7,280 games purchased, 976 were returned due to missing pieces. Find the experimental probability of buying a game with missing pieces.
3. A spinner is labeled with 7 red spheres, 5 blue spheres, 2 green spheres, 10 red cubes, 4 blue cubes, and 8 green cubes. What is the probability of landing on a cube or a red shape?
4. Angela has 3 shirts, 2 sweaters, 4 pairs of slacks, and 2 ties. How many possible outfits can he choose from?
5. There are 3 red marbles, 4 green marbles, 6 blue marbles, and 3 white marbles in a bag. What is the probability of choosing a green marble and then a blue marble from the bag?

A business owner hired 15 male sales representatives and 10 female sales representatives. About how many female sales representatives would you expect the owner to hire out of 150 sales representatives?

