

Drop It!

QUESTIONS FOR STUDENTS:

Pre-activity

1. How many squares are on the Game Board? **16**
2. How many purple squares are there? **3**
3. What is the probability of your penny landing on a purple square [P(purple)]? **3/16**
4. What is the P(yellow)? **1/16**
P(green)? **2/16 or 1/8**
P(red)? **4/16 or 1/4**
P(blue)? **6/16 or 3/8**
5. What is the probability of your penny landing on a pink square? **0/16 or 0**
6. What is the probability of your penny landing on a square that is colored? **16/16 or 1**
7. What is another event with a probability of 0? **Answers may vary (e.g., The coin will land on a circle.)**
8. What is another event with a probability of 1? **Answers may vary (e.g., The coin will land.)**
9. What is the P(green or purple)? **5/16**
10. What is the P(yellow or red)? **5/16**

EXTENSIONS:

1. Create a Game Board where

$$P(\text{red})=40\%$$

$$P(\text{blue})=16\%$$

$$P(\text{yellow})=12\%$$

$$P(\text{green})=8\%$$

$$P(\text{purple})=24\%$$

SAMPLE:

| | | | | |
|--------|--------|--------|--------|--------|
| Red | Red | Red | Red | Red |
| Red | Red | Red | Red | Red |
| Blue | Blue | Blue | Blue | Yellow |
| Yellow | Yellow | Green | Green | Purple |
| Purple | Purple | Purple | Purple | Purple |