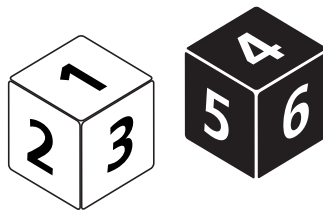


# Exploring Probability

Imagine that you toss two number cubes numbered 1 through 6. One cube is black, and one cube is white.



Classify the following events as *possible (P)* or *impossible (I)*.

- |                                  |                                   |
|----------------------------------|-----------------------------------|
| 1 black + white = 8 _____        | 4 black + white = 3 _____         |
| 2 black - white = 6 _____        | 5 black - white = 4 _____         |
| 3 black $\times$ white = 5 _____ | 6 black $\times$ white = 11 _____ |
- 

Find the smallest possible value for each.

- 7 black + white \_\_\_\_\_
- 8 black - white \_\_\_\_\_
- 9 black  $\times$  white \_\_\_\_\_
- 

Find the largest possible value for each.

- 10 black + white \_\_\_\_\_
- 11 black - white \_\_\_\_\_
- 12 black  $\times$  white \_\_\_\_\_
- 13 List all the possible values for the product black  $\times$  white.
- \_\_\_\_\_
- \_\_\_\_\_