STATISTICAL RETHINKING 2026
HOMEWORK A02 SOLUTIONS

Let's sample from the Beta distribution and then simulate globe tosses from those samples:

```
p_samples <- rbeta( 1e4 , 3+1 , 11+1 )
W_sim <- rbinom(1e4,size=5,p=p_samples)
```

I used the rbinom() function, but you could use sample() and then tally the water points. The resulting distribution is approximated by the counts in W_sim. You can view the distribution with:

```
table(W_sim)
```

```
W_sim
   0    1    2    3    4    5
2837 3445 2368 1015  297   38
```

And you can plot the table with:

```
plot(table(W_sim))
```