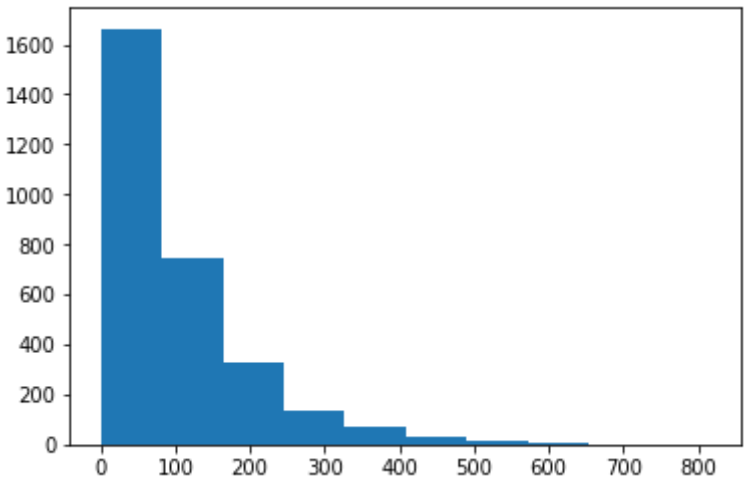
In [1]:
```
import numpy as np
import matplotlib.pyplot as plt

%matplotlib inline
np.random.seed(42)

pop_data = np.random.gamma(1,100,3000)
plt.hist(pop_data);
```



1. In order to create the sampling distribution for the average of 3 draws of this distribution, follow these steps:

a. Use numpy's **random.choice** to simulate 3 draws from the `pop_data` array.

b. Compute the mean of these 3 draws.

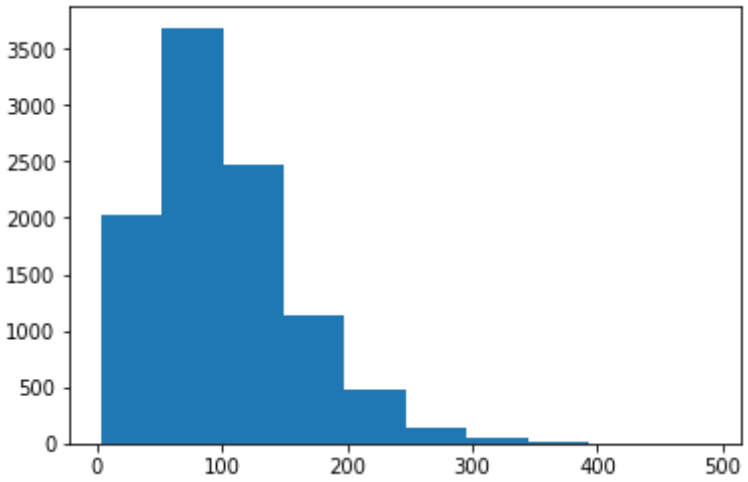
c. Write a loop to simulate this process 10,000 times, and store each mean into an array called **means_size_3**.

d. Plot a histogram of your sample means.

e. Use **means_size_3** and **pop_data** to answer the quiz questions below.

In [2]:
```
means_size_3 = []
for _ in range(10000):
    sample = np.random.choice(pop_data, 3)
    means_size_3.append(sample.mean())

plt.hist(means_size_3);
```



In [ ]:
```

```