

1. Suppose we have  $U = \mathbb{R}$

1. Suppose we have  $S = \mathbb{N}_7$  (the sample space consists of real numbers in the set  $\mathbb{N}_7$ ).

Pick a number:

A. Find the probability of picking an even number.

B. Find the probability of picking a prime number.

C. Find the probability of picking an even number or a prime number.

D. Find the probability of picking a negative number.

E. Find the probability of picking  $\frac{1}{2}$ .

F. Find the probability of picking a number between 5 and 6.

G. Find the probability of picking a number between 2 and 3.

H. Find the probability of picking a number between 2 and 3 or exactly 2 or exactly 3.