**Aim**: To review probability

**Directions**: Take out your simulation homework due today, make sure your name is on it, and place it at the center of each table

# Examples

The numbers 1 through 10 are put in one bag. The numbers 5 through 14 are put in another bag. When you pick one number from each bag, what is the probability you get the same number?

a) How many different possibilities are there if you pick on number from each bag?
b) How many different ways can you pick the same number from both bags?
c) Final answer:

# Examples

If 6 coins are flipped, find the probability that there is at least 1 tails.

a) How many total possibilities are there after flipping 6 coins?
b) How many ways are there of getting at least 1 tails? (HINT: How many ways are there of <u>not</u> getting at least 1 tails)
c) Final answer:

# Assessment

In a tiny town in New Hampshire, voters are equally likely to vote for a Democrat or a Republican. Based on this simulation using coin flips as votes of 5,000 people, what is the probability that the candidates get the same amount of votes?

| | | | |
|---|---|---|---|
| HHTT | THTT | HHTH | THHH |
| HHHT | HTTH | HHHH | THHT |
| THHT | TTTT | HHHH | HTHH |

A) 1/6

B) 1/4

C) 1/12

D) 1/3