

# Theoretical & Experimental Probability

Theoretical



\* What should happen

\* No actions

COINS

Theoretical | Experimental



Sample Space

H, T

$P(H) = \frac{1}{2}$

$= .5$

$= 50\%$

Experimental

H =

T =

Number of Trial	Outcome
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
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17	
18	
19	
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22	
23	
24	
25	
26	
27	
28	
29	
30	

Experimental



\* What happens

\* Conducted the experiment

Spinner

Theoretical | Experimental



Sample Sp.

0, 1, 2, 3, 4, 5,

6, 7, 8, 9

$P(4) = \frac{1}{10}$

$= .1$

$= 10\%$

Experimental

$P(4) =$

$P(7) =$

After 10

$P(4) =$

$P(7) =$

Number of Trial	Outcome
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
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21	
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23	
24	
25	
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27	
28	
29	
30	