## FLIPPING A COIN: An Experiment in Probability



Name		
Date	Period	

1. What is the <b>theoretical probability</b> of getting tails:  in general?												
		ials?										
							after 20 tr	ials?				
			<del></del>									
							after 50 tr	ials?				
2. With a partner, flip a coin 50 times, stopping after 10 and 20 trials to answer the questions below.												
Tria	ol Outcome	Trial	Outcome	Trial	Outcome	Trial	Outcome	Trial	Outcome			
1		11		21		31		41				
2		12		22		32		42				
3		13		23		33		43				
4		14		24		34		44				
5		15		25		35		45				
6		16		26		36		46				
7		17		27		37		47				
8		18		28		38		48				
9		19		29		39		49				
10		20		30		40		50				
STOP												
3.	What is your <b>e</b>	(perime	ntal probabili	ity of ge	tting tails:		after 10 tr	ials?				
	after 20 trials?											
							after 50 tr	ials?				
4.	4. What do you notice about your <b>experimental probability</b> as the number of trials increases?											
5.	How many tails would you expect to get in 100 trials, based on your theoretical probability?											

6. How many tails would you expect to get in 100 trials, based on your **experimental probability**?