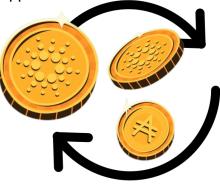
Name:

Probability Practice: Three Coins

If three 2-sided fair coins are flipped at random...



Directions: Expressed as a fraction in lowest terms, answer each of the following.

1.) What is the probability of the first coin landing on heads?	
2.) What is the probability of all three coins landing on tails?	
3.) What is the probability of none of the coins landing on heads?	
4.) What is the probability of <i>at least</i> one of the coins landing on tails?	
5.) What is the probability of <i>exactly</i> two of the coins landing on heads?	
6.) What is the probability of all three coins landing on the same side?	
7.) What is the probability of <i>at least</i> two coins not landing on tails?	
8.) What is the probability of second coin landing tails and the first and third coins both landing on heads?	
9.) What is the probability that <i>at least</i> two of the coins will land on the same side?	
 10.) What is the probability that <i>at least</i> one coin will land on heads and <i>at least</i> will land on tails? 	

ANSWER KEY

	1.) What is the probability of the first coin landing on heads?	$\frac{1}{2}$
	2.) What is the probability of all three coins landing on tails?	$\frac{1}{8}$
	3.) What is the probability of none of the coins landing on heads?	0
	4.) What is the probability of at least one of the coins landing on tails?	<u>7</u> 8
	5.) What is the probability of <i>exactly</i> two of the coins landing on heads?	$\frac{3}{8}$
	6.) What is the probability of all three coins landing on the same side?	$\frac{1}{4}$
	7.) What is the probability of at least two coins not landing on tails?	$\frac{1}{2}$
	8.) What is the probability of second coin landing tails and the first and third coins both landing on heads?	$\frac{1}{8}$
	9.) What is the probability that <i>at least</i> two of the coins will land on the same side?	1
1	I0.) What is the probability that at least one coin will land on heads and at least will land on tails?	$\frac{3}{4}$

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