Name: _____

Probability of Coin Flips

Answer the probability questions for the coin flips shown below

1) What is the probability of getting tails on a single fair coin flip? _____ $\dfrac{1}{2}$

2)If you flip a fair coin three times in a row, what is the probability of getting exactly one head? _____

3) If you flip a fair coin four times in a row, what is the probability of getting all heads? _____

4) If you flip a fair coin five times in a row, what is the probability of getting at least two tails? _____

5) If you flip a fair coin six times in a row, what is the probability of getting exactly four heads? _____

6) If you flip two fair coins, what is the probability of getting exactly one head and one tail? _____

7) If you flip three fair coins, what is the probability of getting exactly two tails? ____

8) If you flip a biased coin with a 60% chance of landing heads, what is the probability of getting tails on the first two flips? _____

Probability of Coin Flips

Answer the probability questions for the coin flips shown below

1) If you flip a fair coin ten times in a row, what is the probability of getting a sequence of at least five consecutive heads? _____

2) If you flip a fair coin until you get three consecutive heads, what is the expected number of flips needed? _____

3) If you flip a fair coin five times in a row, what is the probability of getting a sequence of heads-tails-heads-tails-heads? _____

4) If you flip two fair coins, what is the probability of getting heads on at least one of them? _____

5) If you flip three fair coins, what is the probability of getting all tails? _____

6) If you flip a fair coin six times in a row, what is the probability of getting a sequence of exactly three heads followed by three tails? _____

7) If you flip a biased coin with a 40% chance of landing heads, what is the probability of getting heads on the first four flips? _____

8) If you flip a fair coin twelve times in a row, what is the probability of getting no more than two heads? _____