

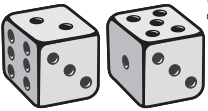
Chapter 1 Review

1. Define theoretical probability.

2. What is the probability of each of the following?

- a) picking the 9 of clubs from a deck of cards _____ (fraction)
 b) flipping heads with a coin _____ (decimal)
 c) picking a diamond from a deck of cards _____ (percent)
 d) rolling a 3 with 1 die _____ (fraction)
 e) rolling an even number with 1 die _____ (decimal)
 f) flipping heads or tails with a coin _____ (percent)

3. a) How many combinations can be obtained by rolling 2 dice? _____



- b) List all of the combinations for rolling a 7 with 2 dice.

- c) Write the probability of rolling a 7 as a fraction of the total.

4. Define experimental probability.

5. Pick 10 cards from a deck of 52.

- a) How many spades did you pick? _____

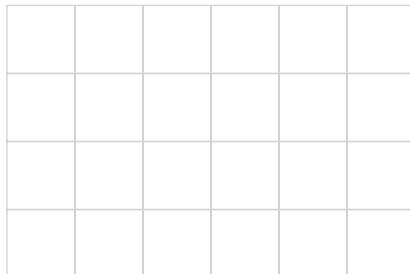
- b) Write the number of spades you got as a fraction, a decimal, and a percent.

_____ = _____ = _____
 fraction decimal percent

6. Complete the table.

Fraction	Decimal	Percent
a) $\frac{1}{2}$		
b) $\frac{1}{10}$		
c)	0.3	
d)	0.7	
e)		90%
f)		95%

7. a) Create and label a bar graph for the “perfect world” results for obtaining each suit when you cut a deck of cards 40 times.



b) The graph in part a) shows _____ probability.

8. A department store offers “scratch and win” tickets to its customers. The store claims that 25% of the tickets result in customers paying no taxes on purchases.

a) Write the probability of getting a winning ticket as a fraction. _____

b) If the store prints 10 000 tickets, how many winning tickets are there?

c) What are the odds of getting a winning ticket?