

Chapter 1 Test

- 1.** What is the difference between theoretical probability and experimental probability? Use an example in your explanation.

- 2.** What is the theoretical probability of each of the following?

- a)** picking a 4 from a deck of cards _____ (fraction)
- b)** picking a red card from a deck of cards _____ (decimal)
- c)** flipping heads with a coin _____ (percent)
- d)** rolling an 8 with 1 die _____ (fraction)
- e)** rolling an even number with 1 die _____ (decimal)
- f)** rolling a 3 with 2 dice _____ (percent)

- 3. a)** List all of the combinations for rolling 5, 6, or 7 with 2 dice.

- b)** Write the probability of rolling a 5 as a fraction of the total. _____

- c)** Write the answer to part b) in lowest terms. _____

- 4.** Roll a die 10 times.

- a)** How many 4s did you roll? _____

- b)** Write the number of 4s that you rolled as a fraction, a decimal, and a percent.

$$\text{_____} = \text{_____} = \text{_____}$$

- c)** This is _____ probability.



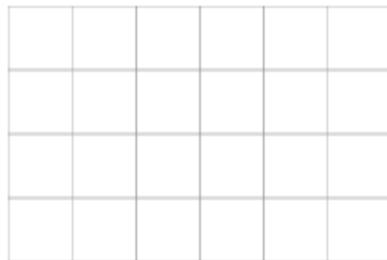
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5. Complete the table.

Fraction	Decimal	Percent
a) $\frac{3}{4}$		
b) $\frac{2}{5}$		
c)	0.6	
d)	0.05	
e)		80%

6. a) Create and label a bar graph for the “perfect world” results for obtaining each suit when you cut a deck of cards 20 times.



b) The graph above shows _____ probability.

7. a) On the drive to school you pass 2 traffic lights. List all of the possible combinations of lights you could get. Use R for red, G for green, and Y for yellow.

b) What is the probability of getting 2 red lights?

c) What are the odds of getting 2 red lights?

