

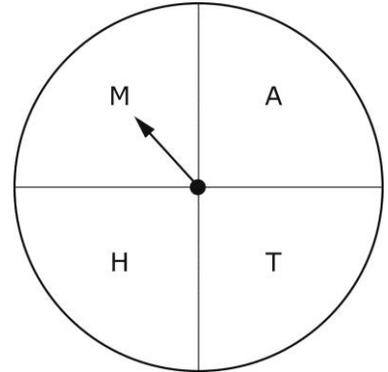
Name: _____

Date: _____

Assignment 1.3 Probability

1. You spin the spinner once.

- a) What is the probability of landing on M?
- b) What are the odds against landing on M?
- c) The spinner does not land on M. If you spin again, will it land on M? Explain.



2. You roll two dice.

- a) What is the probability of rolling a total of 9 or more?
- b) What is the probability of rolling a sum that is an odd number?
- c) What are the odds of rolling a sum that is an odd number?
- d) What are the odds against rolling a sum of 3 or less?



3. You draw a card from a deck of 52 cards.

- a) What is the probability of drawing a 10?
- b) You draw a 6 and do not replace the card. What is the probability of drawing a 10 on your next try?
- c) In total, how many cards can you draw and not replace before the rounded percent of drawing a 10 changes?

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Assignment 1.3 (continued)

4. Draw a spinner for a game in which the odds of landing on each outcome are 1 to 2.

5. Order the contest results from greatest to least chance of success.
 - a) 1 winning outcome out of 6 tries
 - b) 2 winning outcomes out of 14 tries
 - c) 3 winning outcomes out of 15 tries
 - d) 4 winning outcomes out of 25 tries

6. A restaurant has a scratch-and-win contest. You play four cards and win once.
 - a) What percent of tries did you win?

 - b) You find out that the odds of winning are 1 in 4. What is the probability of winning?

 - c) Did you do better or worse than the odds of winning?

7. You choose one of the letters in S-T-A-T-I-S-T-I-C-S.
 - a) What is the probability of choosing the letter S?
Express your answer as a fraction.
 - b) What is the probability of choosing the letter T?
Express your answer as a percent.
 - d) What is the probability of choosing the letter S twice, if you put the letter back after the first pick?
Express your answer as a fraction.
 - e) What is the probability of choosing the letter T twice, if you put the letter back after the first pick?
Express your answer as a percent.