

Outside-of-Class Game

Probability Scavenger Hunt (Lesson 8-7)

● **Get Ready!** _____

Separate the class into four teams.

- Probability Scavenger Hunt master, p. 32

● **Get Set!** _____

Make a copy of the Probability Scavenger Hunt master on page 32 for each student in the class.

● **Go!** _____

- Students try to collect as many of the items on the list as possible.
- The number of points they receive for each item is listed next to the item on the Probability Scavenger Hunt master.
- Give students a specified amount of time to collect the items. A suggested time is 1–2 weeks. Require students to bring the items to class at the end of the time period. You may wish to ask students to explain and/or justify their findings.
- The team with the most points wins.

Outside-of-Class Game

Probability Scavenger Hunt (Lesson 8-7)

- Find and bring in as many items on this list as you can find. Be prepared to identify or explain your findings.
- The points you will receive for each item are listed next to the item.
- You have until _____ to bring in the items.
- The team with the most points wins.

1. Items from home

- a) an item that you can use to illustrate probability (10)
- b) something that indicates how probability or counting can be used at home (10)
- c) a premade spinner (10)
- d) a description of a game that is not fair (15)

2. Items from school

- a) a description of how the physical education department uses probability or counting (10)
- b) a description of how the science department uses probability or counting (Do *not* describe Punnett squares.) (10)
- c) a description of choices in everyday life that you can illustrate with a tree diagram, and the tree diagram you made (15)
- d) a signed statement from a nonmathematics teacher saying that he or she has used probability during the past week (20)

3. Items from newspapers, magazines, books, or the Internet

- a) an article that describes arrangements or choices that you can quantify with permutations or combinations (15)
- b) an article about how someone uses probability in his or her job (15)
- c) a nonmathematics book that uses probability to explain a concept (10)
- d) a cartoon about probability (10)
- e) a web site that discusses probability (15)

4. Items from the community

- a) a library book that describes Pascal's Triangle and a one-paragraph description of a "fun fact" about Pascal's Triangle that you learned from the book (15)
- b) an item that describes the use of sampling in research (15)
- c) a game that illustrates the probability of compound events (15)
- d) an adult willing to visit your class to describe how he or she uses probability in his or her job (25)