

# Dice Differences

Names \_\_\_\_\_  
\_\_\_\_\_

This game is for two players.

## Rules

1. Decide who will be player A and who will be player B.
2. Decide who goes first, and then alternate turns.
3. On your turn, do the following:
  - Roll two dice.
  - If the values are different, subtract the lesser value from the greater value.
  - Record the difference in the spaces below. (See the sample game.)
  - If the values are the same, enter a zero.
4. Play at least three games.

## Scoring

- Player A scores a point if the difference is 0, 1, or 2.
- Player B scores a point if the difference is 3, 4, or 5.
- The winner of a game is the first player to score 10 points.

Sample game. 0, 2, 1, 2, 3, 3, 1, 0, 1, 4,  
1, 2, 1, 3, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Player A's tally of points: |||| ||||

Player B's tally of points: /||| \_\_\_\_\_

Game 1. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,  
\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Player A's tally of points: \_\_\_\_\_

Player B's tally of points: \_\_\_\_\_

Game 2. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,  
\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Player A's tally of points: \_\_\_\_\_

Player B's tally of points: \_\_\_\_\_

Game 3. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,  
\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Player A's tally of points: \_\_\_\_\_

Player B's tally of points: \_\_\_\_\_

# Dice Differences (continued)

Name \_\_\_\_\_

Game 4.      \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,  
                  \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Player A's tally of points: \_\_\_\_\_

Player B's tally of points: \_\_\_\_\_

Game 5.      \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,  
                  \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Player A's tally of points: \_\_\_\_\_

Player B's tally of points: \_\_\_\_\_

For each game, record the number of times each difference occurred:

	Difference					
	0	1	2	3	4	5
Game 1	—	—	—	—	—	—
Game 2	—	—	—	—	—	—
Game 3	—	—	—	—	—	—
Game 4	—	—	—	—	—	—
Game 5	—	—	—	—	—	—

1. How many games did player A win? \_\_\_\_\_
2. How many games did player B win? \_\_\_\_\_
3. Is this a fair game? \_\_\_\_\_ Explain your answer. Use the data above to help you.  
 \_\_\_\_\_  
 \_\_\_\_\_