

Comparing Risky Gambles

The purpose of this research study is to improve our understanding of how people make risky decisions. The questions in this computer-based survey involve comparisons between gambles with the possibility of winning money. All of the situations are hypothetical, so you won't win any real money.

There are no anticipated risks as a result of your participation in this study. We will not ask for your name as part of the study, so your responses will not be linked with your name in any way. The only benefit to you and others as a result of your participation is a greater understanding of decision processes, as explained in the debriefing materials that will be provided at the end of the session. The experiment will last about 60 minutes and you will receive one credit hour towards your REP requirement. If you have questions about the research, or in the extremely unlikely event of a research-related injury, please contact Dr. Mike DeKay, 224 Lazenby Hall, phone 292-1837. For questions about your rights as a participant in this study or to discuss other study-related concerns or complaints with someone who is not part of the research team, you may contact Ms. Sandra Meadows in the Office of Responsible Research Practices at 1-800-678-6251.

Your participation in this study is voluntary. Refusal to participate will involve no penalty or loss of benefits to which you are otherwise entitled. You may also discontinue participation at any time without penalty or loss of benefits to which you are otherwise entitled.

If you wish to participate in this study, please click the Next button.

This study is designed to explore the decisions that people make when the outcomes of those decisions are uncertain. Specifically, we will ask you to make choices between hypothetical monetary gambles. Although the gambles are not real, please make your decisions as if they involved real money. At the end of the study, we will also ask you a number of other questions.

The situation may be new to you, and you may not have all the information that you would like. That's okay. We'd like you to tell us what you think anyway. Please give your honest opinion—not what you think you "should" say. These are opinion questions and there are no right or wrong answers.

If you have questions at any time during the study, please ask the facilitator individually.

Imagine that you are a participant in a study on decision making involving real money and you are asked to choose between two options involving monetary gambles. In option A, there is a 30% chance that you will receive \$22 and a 70% chance that you will get no money. In option B, there is a 40% chance that you will receive \$14 and a 60% chance that you will get no money.

These two options may be summarized as follows:

Option A:

30% chance that you get \$22

70% chance that you get no money

Option B:

40% chance that you get \$14

60% chance that you get no money

1. If you played option A ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

2. If you played option B ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

3. If you had to choose one gamble to play ONE time, which option would you prefer?

Please check one.

| Strongly prefer option A | - | Moderately prefer option A | - | Neither | - | Moderately prefer option B | - | Strongly prefer option B |
|-----------------------------------|-----------------------|-------------------------------------|-----------------------|-----------------------|-----------------------|-------------------------------------|-----------------------|-----------------------------------|
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

4. If forced to decide, which option would you choose to play ONE time? Please check one.

☐ Option A

☐ Option B

Now imagine that you are in the same situation, but the options are different. The previous options are not available, but everything else is the same as before.

The two new options are:

Option A:

25% chance that you get \$6

75% chance that you get no money

Option B:

20% chance that you get \$10

80% chance that you get no money

5. If you played option A ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

6. If you played option B ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

7. If you had to choose one gamble to play ONE time, which option would you prefer?

Please check one.

| Strongly prefer option A | - | Moderately prefer option A | - | Neither | - | Moderately prefer option B | - | Strongly prefer option B |
|-----------------------------------|-----------------------|-------------------------------------|-----------------------|-----------------------|-----------------------|-------------------------------------|-----------------------|-----------------------------------|
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

8. If forced to decide, which option would you choose to play ONE time? Please check one.

☐ Option A

☐ Option B

Now imagine that you are in the same situation, but the options are different. The previous options are not available, but everything else is the same as before.

The two new options are:

Option A:

15% chance that you get \$42

85% chance that you get no money

Option B:

30% chance that you get \$24

70% chance that you get no money

9. If you played option A ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

10. If you played option B ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

11. If you had to choose one gamble to play ONE time, which option would you prefer?

Please check one.

| | | | | | | | | |
|-----------------------------------|-----------------------|-------------------------------------|-----------------------|-----------------------|-----------------------|-------------------------------------|-----------------------|-----------------------------------|
| Strongly prefer option A | - | Moderately prefer option A | - | Neither | - | Moderately prefer option B | - | Strongly prefer option B |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

12. If forced to decide, which option would you choose to play ONE time? Please check one.

☐ Option A

☐ Option B

Now imagine that you are in the same situation, but the options are different. The previous options are not available, but everything else is the same as before.

The two new options are:

Option A:

2% chance that you get \$5

98% chance that you get no money

Option B:

1% chance that you get \$12

99% chance that you get no money

13. If you played option A ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

14. If you played option B ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

15. If you had to choose one gamble to play ONE time, which option would you prefer?

Please check one.

| Strongly prefer option A | - | Moderately prefer option A | - | Neither | - | Moderately prefer option B | - | Strongly prefer option B |
|-----------------------------------|-----------------------|-------------------------------------|-----------------------|-----------------------|-----------------------|-------------------------------------|-----------------------|-----------------------------------|
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

16. If forced to decide, which option would you choose to play ONE time? Please check one.

☐ Option A

☐ Option B

Now imagine that you are in the same situation, but the options are different. The previous options are not available, but everything else is the same as before.

The two new options are:

Option A:

50% chance that you get \$6

50% chance that you get no money

Option B:

25% chance that you get \$9

75% chance that you get no money

17. If you played option A ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

18. If you played option B ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

19. If you had to choose one gamble to play ONE time, which option would you prefer?

Please check one.

| Strongly prefer option A | - | Moderately prefer option A | - | Neither | - | Moderately prefer option B | - | Strongly prefer option B |
|-----------------------------------|-----------------------|-------------------------------------|-----------------------|-----------------------|-----------------------|-------------------------------------|-----------------------|-----------------------------------|
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

20. If forced to decide, which option would you choose to play ONE time? Please check one.

☐ Option A

☐ Option B

Now imagine that you are in the same situation, but the options are different. The previous options are not available, but everything else is the same as before.

The two new options are:

Option A:

40% chance that you get \$8

60 % chance that you get no money

Option B:

30% chance that you get \$7

70% chance that you get no money

21. If you played option A ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

22. If you played option B ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

23. If you had to choose one gamble to play ONE time, which option would you prefer?

Please check one.

| Strongly prefer option A | - | Moderately prefer option A | - | Neither | - | Moderately prefer option B | - | Strongly prefer option B |
|-----------------------------------|-----------------------|-------------------------------------|-----------------------|-----------------------|-----------------------|-------------------------------------|-----------------------|-----------------------------------|
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

24. If forced to decide, which option would you choose to play ONE time? Please check one.

☐ Option A

☐ Option B

Now imagine that you are in the same situation, but the options are different. The previous options are not available, but everything else is the same as before.

The two new options are:

Option A:

65% chance that you get \$15

35% chance that you get no money

Option B:

85% chance that you get \$12

15% chance that you get no money

25. If you played option A ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

26. If you played option B ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

27. If you had to choose one gamble to play ONE time, which option would you prefer?

Please check one.

| Strongly prefer option A | - | Moderately prefer option A | - | Neither | - | Moderately prefer option B | - | Strongly prefer option B |
|-----------------------------------|-----------------------|-------------------------------------|-----------------------|-----------------------|-----------------------|-------------------------------------|-----------------------|-----------------------------------|
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

28. If forced to decide, which option would you choose to play ONE time? Please check one.

☐ Option A

☐ Option B

Now imagine that you are in the same situation, but the options are different. The previous options are not available, but everything else is the same as before.

The two new options are:

Option A:

80% chance that you get \$10

20% chance that you get no money

Option B:

100% chance that you get \$6

29. If you played option A ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

30. If you played option B ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

31. If you had to choose one gamble to play ONE time, which option would you prefer?

Please check one.

| | | | | | | | | |
|-----------------------------------|---|-------------------------------------|---|-----------------------|---|-------------------------------------|---|-----------------------------------|
| Strongly prefer option A | - | Moderately prefer option A | - | Neither | - | Moderately prefer option B | - | Strongly prefer option B |
| <input type="radio"/> | | <input type="radio"/> | | <input type="radio"/> | | <input type="radio"/> | | <input type="radio"/> |

32. If forced to decide, which option would you choose to play ONE time? *Please check one.*

☐ Option A

☐ Option B

Now imagine that you are in the same situation, but the options are different. The previous options are not available, but everything else is the same as before.

The two new options are:

Option A:

4% chance that you get \$65

96% chance that you get no money

Option B:

8% chance that you get \$35

92% chance that you get no money

33. If you played option A ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

34. If you played option B ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

35. If you had to choose one gamble to play ONE time, which option would you prefer?

Please check one.

| Strongly prefer option A | - | Moderately prefer option A | - | Neither | - | Moderately prefer option B | - | Strongly prefer option B |
|-----------------------------------|-----------------------|-------------------------------------|-----------------------|-----------------------|-----------------------|-------------------------------------|-----------------------|-----------------------------------|
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

36. If forced to decide, which option would you choose to play ONE time? Please check one.

☐ Option A

☐ Option B

Now imagine that you are in the same situation, but the options are different. The previous options are not available, but everything else is the same as before.

The two new options are:

Option A:

45% chance that you get \$12

55% chance that you get no money

Option B:

90% chance that you get \$5

10% chance that you get no money

37. If you played option A ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

38. If you played option B ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

39. If you had to choose one gamble to play ONE time, which option would you prefer?

Please check one.

| Strongly prefer option A | - | Moderately prefer option A | - | Neither | - | Moderately prefer option B | - | Strongly prefer option B |
|-----------------------------------|-----------------------|-------------------------------------|-----------------------|-----------------------|-----------------------|-------------------------------------|-----------------------|-----------------------------------|
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

40. If forced to decide, which option would you choose to play ONE time? Please check one.

☐ Option A

☐ Option B

Now imagine that you are in the same situation, but the options are different. The previous options are not available, but everything else is the same as before.

The two new options are:

Option A:

10% chance that you get \$75

90% chance that you get no money

Option B:

25% chance that you get \$35

75% chance that you get no money

41. If you played option A ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

42. If you played option B ONE HUNDRED times, about how much would you expect to win in total?

Please enter a dollar amount like \$19, \$500, or \$1136.

43. If you had to choose one gamble to play ONE time, which option would you prefer?

Please check one.

| Strongly prefer option A | - | Moderately prefer option A | - | Neither | - | Moderately prefer option B | - | Strongly prefer option B |
|-----------------------------------|-----------------------|-------------------------------------|-----------------------|-----------------------|-----------------------|-------------------------------------|-----------------------|-----------------------------------|
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

44. If forced to decide, which option would you choose to play ONE time? Please check one.

☐ Option A

☐ Option B

Now we would like you to answer some additional questions.

45. Imagine that we roll a fair, six-sided die 1,000 times. (That would mean that we roll one die from a pair of dice.) Out of 1,000 rolls, how many times do you think the die would come up as an even number?

46. In the BIG BUCKS LOTTERY, the chances of winning a \$10.00 prize are 1%. What is your best guess about how many people would win a \$10.00 prize if 1,000 people each buy a single ticket from BIG BUCKS?

47. In the ACME PUBLISHING SWEEPSTAKES, the chance of winning a car is 1 in 1,000. What percent of tickets of ACME PUBLISHING SWEEPSTAKES win a car?

48. If the chance of getting a disease is 10%, how many people would be expected to get the disease out of 1000?

49. If the chance of getting a disease is 20 out of 100, this would be the same as having a ____% chance of getting the disease.

50. Suppose you have a close friend who has a lump in her breast and must have a mammogram. Of 100 women like her, 10 of them actually have a malignant tumor and 90 of them do not. Of the 10 women who actually have a tumor, the mammogram indicates correctly that 9 of them have a tumor and indicates incorrectly that 1 of them does not have a tumor. Of the 90 women who do not have a tumor, the mammogram indicates correctly that 81 of them do not have a tumor and indicates incorrectly that 9 of them do have a tumor. The table below summarizes all of this information. Imagine that your friend tests positive (as if she had a tumor), what is the likelihood that she actually has a tumor?

| | Tested Positive | Tested Negative | Total |
|-----------------------|-----------------|-----------------|-------|
| Actually Has a Tumor | 9 | 1 | 10 |
| Does Not Have a Tumor | 9 | 81 | 90 |
| Total | 18 | 82 | 100 |

(Answer: _____ out of _____)

51. A bat and a ball cost \$1.10 in total. The bat costs \$1.00 more than the ball. How much does the ball cost?

52. In a lake, there is a patch of lilypads. Every day, the patch doubles in size. If it takes 48 days for the patch to cover the entire lake, how long would it take for the patch to cover half of the lake?

53. Do you have any guesses about the specific goal of this study or about the specific hypothesis that we are testing?

If yes, please describe your guess(es) in the box below. If no, just type "no"

A large, empty rectangular box with a thin black border, intended for the user to provide their answer to the question above.

54. When choosing between options A and B, did you ever try to choose the option with the higher “expected value”? *Please check one. If you are not sure what an expected value is, check No.*

☐ Yes

☐ No

55. Some people prefer to avoid risks (we call these people “risk averse”). Other people seek out risks and may actually enjoy them (we call these people “risk seeking”). To what extent are you risk averse or risk seeking? *Please check one.*

| | | | | | | | | |
|-----------------------|-----------------------|---------------------------|-----------------------|-----------------------|-----------------------|-------------------------------|-----------------------|-----------------------|
| Very risk averse | - | Moderately risk averse | - | Neither | - | Moderately risk seeking | - | Very risk seeking |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Finally, we would like you to answer a few questions about yourself. This information will be very useful in helping us describe the types of people who participated in our study.

56. To what extent are you politically liberal or politically conservative? *Please check one.*

| | | | | | | | | |
|-----------------------|---|-----------------------|---|-----------------------|---|-------------------------|---|-----------------------|
| Very liberal | - | Moderately liberal | - | Neither | - | Moderately conservative | - | Very conservative |
| <input type="radio"/> | | <input type="radio"/> | | <input type="radio"/> | | <input type="radio"/> | | <input type="radio"/> |

57. How important is religion in your daily life? *Please check one.*

| | | | | |
|-----------------------|---|-----------------------|---|-----------------------|
| Not at all important | - | Moderately important | - | Very important |
| <input type="radio"/> | | <input type="radio"/> | | <input type="radio"/> |

58. What is your sex? *Please check one.*

- ☐ Male
- ☐ Female

59. What is your age in years?

60. Are you Hispanic or Latino? *Please check one.*

- ☐ Yes
- ☐ No

61. How would you describe your race? *Please check all that apply.*

- ☐ American Indian or Alaska Native
- ☐ Asian
- ☐ Black or African American
- ☐ Native Hawaiian or Other Pacific Islander
- ☐ White
- ☐ Other (please specify)

62. Is English your first language? *Please check one.*

☐ Yes

☐ No

Thank you for participating in this study!