**Avoidance of Preference Anomalies Subtest**

Items are presented in two widely separated blocks with all a versions in block 1 and all b versions in block 2.

1a. Which option would you prefer?

a. 61% chance to win $440,000

b. 63% chance to win $400,000

a. I would definitely prefer option A

b. I would probably prefer option A

c. I would probably prefer option B

d. I would definitely prefer option B

1b. Which option would you prefer?

a. 98% chance to win $440,000

b. 100% chance to win $400,000

a. I would definitely prefer option A

b. I would probably prefer option A

c. I would probably prefer option B

d. I would definitely prefer option B

================================================

2a. How dangerous is a disease is that kills 1,486 people out of every 10,000?

10-point scale anchored on

1 = Somewhat Dangerous

5 = Very Dangerous

10 = Extremely Dangerous

2b. How dangerous is a disease that kills 17.14% of the population?

10-point scale anchored on

1 = Somewhat Dangerous

5 = Very Dangerous

10 = Extremely Dangerous

================================================

How much would you like the following:

3a. An Amazon $20 gift certificate for free

10-point scale anchored on

1 = Somewhat Like

5 = Moderately Like

10 = Very Strongly Like

3b. An Amazon $40 gift certificate that costs you only $10

10-point scale anchored on

1 = Somewhat Like

5 = Moderately Like

10 = Very Strongly Like

================================================

4. Imagine that there will be a deadly flu going around your area next winter. Your doctor says that you have a 10% chance (10 out of 100) of dying from this flu.

However, a new flu vaccine has been developed and tested. If taken, the vaccine prevents you from catching the deadly flu. However, there is one serious risk involved with taking this vaccine. The vaccine is made from a somewhat weaker type of flu virus, and there is a 5% (5 out of 100) risk of the vaccine causing you to die from the weaker type of flu. Imagine that this vaccine is completely covered by health insurance.

Please answer the following question:

If you had to decide now, which would you choose?

\_\_\_ I would definitely not take the vaccine. I would thus accept the 10% chance of dying from this flu.

\_\_\_ I would probably not take the vaccine. I would thus accept the 10% chance of dying from this flu.

\_\_\_ I would probably take the vaccine. I would thus accept the 5% chance of dying from the weaker flu in the vaccine.

\_\_\_ I would definitely take the vaccine. I would thus accept the 5% chance of dying from the weaker flu in the vaccine.

================================================

5a. A large and profitable pharmaceutical company had been producing an effective vaccine through an efficient process. In order to maintain their current level of profit, the company abandoned its plans to switch to a new and more expensive process, because it would have reduced their profit by $1 per dose. Unfortunately, the older process produced a slightly less pure vaccine, and, as a result, 5 children died from the vaccine itself. If you were a juror in a trial, how much to you think the company should have to pay the family of a child who died as a result of the vaccine?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_dollars

5b. A large and profitable pharmaceutical company had been producing an effective vaccine through an expensive process. In order to reduce their costs, the company switched to a new and more efficient process that resulted the company earning an extra $1 per dose. Unfortunately, the new process produced a slightly less pure vaccine, and, as a result, 5 children died from the vaccine itself. If you were a juror in a trial, how much to you think the company should have to pay the family of a child who died as a result of the vaccine?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_dollars

================================================

6a. I would find a game that had “a 7/36 chance of winning $17 and a 29/36 chance of winning nothing” extremely attractive.

1= Disagree strongly

2 =Disagree moderately

3 =Disagree slightly

4 = Agree slightly

5 = Agree moderately

6 = Agree strongly

6b. I would find a game that had “a 7/36 chance of winning $17 and a 29/36 chance of losing 5¢” extremely attractive.

================================================

7a. Data indicate that 786 of every 10,000 tourists in a particular country are the victims of a serious crime. Rate the following statement: “It is extremely dangerous for tourists to travel in that country.”

1= Disagree strongly

2 =Disagree moderately

3 =Disagree slightly

4 = Agree slightly

5 = Agree moderately

6 = Agree strongly

7b. Data indicate that 8.14% of the tourists in a particular country are the victims of a serious crime. Rate the following statement: “It is extremely dangerous for tourists to travel in that country.”

================================================

8a. A company is making a small profit. It is located in a community experiencing a recession with substantial unemployment but no inflation. There are many workers eager to work at the company. The company decides to decrease wages and salaries 6% this year. This decision is:

a. completely acceptable

b. probably acceptable

c. probably unfair

d. definitely unfair

8b. A company is making a small profit. It is located in a community experiencing a recession with substantial unemployment and inflation of 14%. There are many workers eager to work at the company. The company decides to increase salaries only 8% this year. This decision is:

================================================

[Positive outcome condition]

9a. A 55-year-old man had a heart condition. He had to stop working because of chest pain. He enjoyed his work and did not want to stop. His pain also interfered with other things, such as travel and recreation. A successful heart bypass operation would relieve his pain and increase his life expectancy by five years. However, 8% of the people who have this operation die from the operation itself. His physician decided to go ahead with the operation. The operation succeeded. Evaluate the physician's decision to go ahead with the operation.

1 = incorrect, a very bad decision

2 = incorrect, all things considered

3 = incorrect, but not unreasonable

4 = the decision and its opposite are equally good

5 = correct, but the opposite would be reasonable too

6 = correct, all things considered

7 = clearly correct, an excellent decision

[Negative outcome]

9b. A 58-year-old man had a degenerative hip condition. He was confined to a wheelchair and had been forced to retire early from work the year before. His sedentary state was causing him to gain weight and he was depressed because he could not work or engage in any recreational activities. He enjoyed his work and recreation and did not want to stop. He consulted his physician, who told him that a successful operation on the degenerative hip would relieve his pain and increase his life expectancy by ten years or more because he would be able to exercise. However, because the operation was complicated and because the man had a mild heart condition, there was a 2% chance that he would die from the operation itself. Nevertheless, his physician recommended the operation. Unfortunately, complications arose on the operating table and the man died of heart failure. Evaluate the physician's decision to go ahead with the operation.

================================================

RAW SCORING:

Problem #1:

Scored 1 if 1b minus 1a rating was ≤ 0

Scored 0 otherwise

Problem #2:

Scored 1 if 2b minus 2a rating was > 0

Scored 0 if 2b minus 2a rating was ≤ 0

Problem #3:

Scored 1 if 3b minus 3a rating was ≥ -.25

Scored 0 if 3b minus 3a rating was < -.25

Problem #4:

Scored 2 if answered d

Scored 1 if answered c

Scored 0 if answered a or b

Problem #5:

Scored 1 if estimate a and b are the same

Scored 0 otherwise

Problem #6:

Scored 1 if response b minus a ≤ 0

Scored 0 if response b minus a > 0

Problem #7:

Scored 1 if 7b minus 7a rating was ≥ 0

Scored 0 if 7b minus 7a rating was < 0

Problem #8:

Because the inflation adjusted salary reduction is the same, this item was:

Scored 1 if response a and b are the same

Scored 0 otherwise

Problem #9:

Because the 9b was at least as good a decision as 9a, this item was:

Scored 1 if 9b rating minus 9a rating was ≥ 0

Scored 0 if 9b rating minus 9a rating was < 0

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**CART Scoring:**

Summed raw scores of 7 to 10 are scored as 3 points

Summed raw scores of 6 are scored as 2 points

Summed raw scores of 4 and 5 are scored as 1 point

Summed raw scores of 0 to 3 are scored as 0 points