Participant Questionnaire

Thank you in advance for participating in the study! We would like you to answer a series of questions that will be helpful in understanding the factors behind how people apply information to solve problems like those posed in this study. Completing this questionnaire will take about 15 to 20 minutes. The information you provide is voluntary and will be kept confidential and treated as anonymous. If you have any questions or concerns about what you are being asked, please contact the study moderator.

| Participant ID: | |
|-----------------------|---|
| A. Questions about yo | our background and experience. |
| 1. Your age: | |
| 2. Your gender: | □ Female □ Male |
| 3. Do you have any | visual impairment, or color blindness? \square No \square Yes |
| If yes, what k | ind(s)? |
| | |
| 4. Your completed | educational degree(s) and the discipline(s) of study |
| ☐ Associate | Discipline |
| \square Bachelor | Discipline |
| ☐ Certificate | Discipline |
| ☐ Master | Discipline |
| ☐ Ph.D. | Discipline |
| □ Other | Discipline |
| 5. Educational deg | rees and programs you are currently enrolled in |
| Degree / Level | |
| Discipline / Prog | gram |

6. Please indicate your current and previous work experience (include military service) starting with most recent employer:
Employer Job Title/Position Number

| | | | of Years |
|----|---|--|------------|
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| 7. | | probability and statistics. | |
| 8. | In the past, how often have you us problems? | sed probabilities or statistics to answer question | s or solve |
| | □ Never. I have never done th □ Rarely. I have done this a fe □ Occasionally. I have done th □ Often. I have done this ofter | w times or less. his occasionally. | |
| 9. | In the past, how often have you we problems? | orked with geospatial $^{ m 1}$ data to answer questions | or solve |
| | □ Never. I have never done th □ Rarely. I have done this less □ Occasionally. I have done th □ Often. I have done this ofter | s than a few times. his occasionally. | |
| | | | |

¹ Defined as the position of things on a map or the earth's surface

| 10. How would you rate your level of expertise in geospatial intelligence analysis ² ? |
|---|
| □ None. |
| □ Novice. |
| ☐ Intermediate. |
| ☐ Expert. |
| 11. How would you rate your spatial ability ³ ? |
| \square Poor. |
| □ Weak. |
| \square Average. |
| \square Good. |
| ☐ Excellent. |

² Geospatial intelligence analysis is the exploitation of imagery and geospatial information to describe, assess, and visually depict physical features and geographically referenced activities on the earth.

³ Spatial ability is the ability to reason about objects in 2 dimensional and 3 dimensional space, and to draw conclusions about these

objects given limited information

B. Questions about your opinions and attitudes.

Each following item is a statement that a person may either agree with or disagree with. For each item, indicate how much you agree or disagree with what the item says. Please respond to all the items; do not leave any blank. Choose only one response to each statement. Please be as accurate and honest as you can be. Respond to each item as if it were the only item. That is, don't worry about being "consistent" in your responses.

| Statement | Very true for me | Somewhat true for me | Somewhat false for me | Very false for me |
|---|------------------------|----------------------------|-----------------------------|-------------------------|
| 1. A person's family is the most important thing in life. | | | | |
| 2. Even if something bad is about to happen to me, I rarely experience fear or nervousness. | | | | |
| 3. I go out of my way to get things I want. | | | | |
| 4. When I'm doing well at something I love to keep at it. | | | | |
| 5. I'm always willing to try something new if I think it will be fun. | | | | |
| 6. How I dress is important to me. | | | | |
| 7. When I get something I want, I feel excited and energized. | | | | |
| 8. Criticism or scolding hurts me quite a bit. | | | | |
| 9. When I want something I usually go all-out to get it. | | | | |
| 10. I will often do things for no other reason than that they might be fun. | | | | |
| Continues on next page | | | | |

| Statement | Very true for me | Somewhat true for me | Somewhat false for me | Very false for me |
|--|------------------------|----------------------------|-----------------------------|-------------------------|
| 11. It's hard for me to find the time to do things such as get a haircut. | | | | |
| 12. If I see a chance to get something I want I move on it right away. | | | | |
| 13. I feel pretty worried or upset when I think or know somebody is angry at me. | | | | |
| 14. When I see an opportunity for something I like I get excited right away. | | | | |
| 15. I often act on the spur of the moment. | | | | |
| 16. If I think something unpleasant is going to happen I usually get pretty "worked up." | | | | |
| 17. I often wonder why people act the way they do. | | | | |
| 18. When good things happen to me, it affects me strongly. | | | | |
| 19. I feel worried when I think I have done poorly at something important. | | | | |
| 20. I crave excitement and new sensations. | | | | |
| 21. When I go after something I use a "no holds barred" approach. | | | | |
| 22. I have very few fears compared to my friends. | | | | |
| 23. It would excite me to win a contest. | | | | |
| 24. I worry about making mistakes. | | | | |

Each following item is a statement that a person may either agree with or disagree with. For each item, indicate whether you agree or disagree with what the item says.

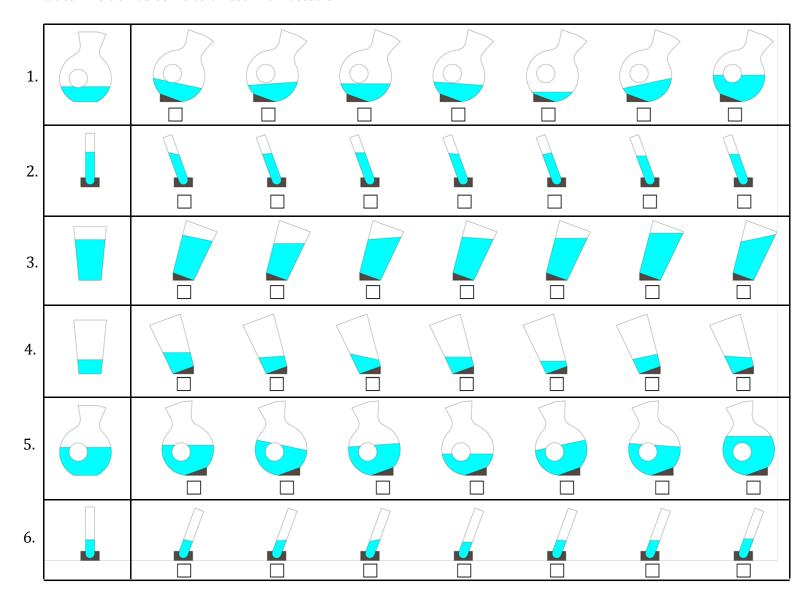
| Statement | Agree | Disagree |
|---|------------------------------|-------------------------|
| 1. Scholars are usually at greater risk of exaggerating how complex the world is than they are of underestimating how complex it is. | | |
| 2. We are closer than many think to achieving parsimonious explanations of politics | | |
| 3. I think politics is more cloudlike than clocklike ("cloudlike" meaning inherently unpredictable; "clocklike" meaning perfectly predictable if we have adequate knowledge). | | |
| 4. The more common error in decision making is to abandon good ideas too quickly, not to stick with bad ideas too long. | | |
| 5. Having clear rules and order at work is essential for success. | | |
| 6. Even after I have made up my mind about something, I am always eager to consider a different opinion. | | |
| 7. I dislike questions that can be answered in many different ways. | | |
| 8. I usually make important decisions quickly and confidently. | | |
| 9. When considering most conflict situations, I can usually see how both sides could be right. | | |
| 10. It is annoying to listen to someone who cannot seem to make up his or her mind. | | |
| 11. I prefer interacting with people whose opinions are very different from my own. | | |
| 12. When trying to solve a problem I often see so many options that it is confusing. | | |
| Statement | I'm more of a hedgehog | I'm more of a fox |
| 13. Isaiah Berlin classified intellectuals as hedgehogs or foxes. The hedgehog knows one big thing and tries to explain as much as possible within that conceptual framework, whereas the fox knows many small things and is content to improvise explanations on a case-by-case basis. I place myself towards the hedgehog or fox end of this scale. | | |

C. Questions about your abilities and knowledge.

The following consists of several statements about your spatial and navigational abilities. After each statement, you should check a box to indicate your level of agreement with the statement.

| Statement | Strongly agree | Agree | Slightly Agree | Neither agree nor disagree | Slightly Disagree | Disagree | Strongly Disagree |
|--|-------------------|-------|-------------------|-------------------------------------|----------------------|----------|----------------------|
| 1. I am very good at giving directions. | | | | | | | |
| 2. I have a poor memory for where I left things. | | | | | | | |
| 3. I am very good at judging distances. | | | | | | | |
| 4. My "sense of direction" is very good. | | | | | | | |
| 5. I tend to think of my environment in terms of cardinal directions (N, S, E, W). | | | | | | | |
| 6. I very easily get lost in a new city. | | | | | | | |
| 7. I enjoy reading maps. | | | | | | | |
| 8. I have trouble understanding directions. | | | | | | | |
| 9. I am very good at reading maps. | | | | | | | |
| 10. I don't remember routes very well while riding as a passenger in a car. | | | | | | | |
| 11. I don't enjoy giving directions. | | | | | | | |
| 12. It's not important to me to know where I am. | | | | | | | |
| 13. I usually let someone else do the navigational planning for long trips. | | | | | | | |
| 14. I can usually remember a new route after I have traveled it only once. | | | | | | | |
| 15. I don't have a very good "mental map" of my environment. | | | | | | | |

Below are six rows containing images of vessels filled with various amounts of water. For each image on the left, select the corresponding box under one image on the right that correctly shows what the water would look like inside the vessel after it has been tilted. Assume the vessels are sitting still on a table top and the water inside has come to a rest in all vessels.



Please answer the following questions

Question 1. 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? 2. If it takes 5 machines 5 minutes to make 5 widgets, how long would it take 100 machines to make 100 widgets? 3. In a lake, there is a patch of lily pads. 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? Answer cents

| 1. Have you ever played video games? $\ \square$ Yes $\ \square$ No |
|---|
| 2. Have you played video games in the last 12 months? $\ \square$ Yes $\ \square$ No |
| 3. Approximately how often and how much time do you spend playing video games? |
| On average, I play video games at least once per (pick one of the following) |
| □ Day |
| □ Week |
| \square Month |
| □ Year |
| and spend about hours playing per that unit of time (for example, 1 hour per day 10 hours per year, etc.) |

This is the end of the questionnaire. Thank you again for your responses!

Please check the best answer for each of the following questions.