

Intro_Consent

Please consider this information carefully before deciding whether to participate in this research.

The purpose of this research is to examine which factors influence social judgment and decision-making. You will be asked to make judgements about individuals and actions in social scenarios. We are simply interested in your judgement. The study will take 5 minute to complete, and you will receive 1 USD on Amazon Mechanical Turk. Your compensation and time commitment are specified in the study description. There are no anticipated risks associated with participating in this study. The effects of participating should be comparable to those you would ordinarily experience from viewing a computer monitor and using a mouse or keyboard for a similar amount of time. At the end of the study, we will provide an explanation of the questions that motivate this line of research and will describe the potential implications.

Your participation in this study is completely voluntary and you may refuse to participate or you may choose to withdraw at any time without penalty or loss of benefits to you which are otherwise entitled. Your participation in this study will remain confidential. No personally identifiable information will be associated with your data. Also, all analyses of the data will be averaged across all the participants, so your individual responses will never be specifically analyzed.

If you have questions or concerns about your participation or payment, or want to request a summary of research findings, please contact Dr. Jonathan Phillips at Jonathan.S.Phillips@dartmouth.edu.

Please save a copy of this form for your records.

Agreement: The nature and purpose of this research have been sufficiently explained and I agree to participate in this study. I understand that I am free to withdraw at any time without incurring any penalty. Please consent by clicking the button below to continue. Otherwise, please exit the study at any time.

Thank you for your participation in this experiment!

As a reminder, in this experiment, you will read a short story and answer one or more questions about this short story. If you are ready, click on the button below to continue.

Captcha

Are you a bot?

Liam says to Emma: "It's a beautiful day, isn't it?"

Who is Liam talking to? (case sensitive)

Are you a bot?

Mia says to Benjamin: "It's a beautiful day, isn't it?"

Who is Mia talking to? (case sensitive)

Are you a bot?

William says to Ava: "It's a beautiful day, isn't it?"

Who is William talking to? (case sensitive)

Are you a bot?

Amelia says to Noah: "It's a beautiful day, isn't it?"

Who is Amelia talking to? (case sensitive)

Are you a bot?

Evelyn says to James: "It's a beautiful day, isn't it?"

Who is Evelyn talking to? (case sensitive)

Ship - Neutral

Please imagine the following scenario:

While sailing on the sea, a large storm came upon a captain and his ship. As the waves began to grow larger, the captain realized that his small vessel was too heavy and the ship would flood if he didn't make it lighter. The only way that the captain could keep the ship from capsizing was to cut the cargo loose which is

weighing the ship down. The captain knows that the cargo contains his wife's expensive art collection because that is what he packed into the cargo.

Fully realizing the cargo contains his wife's expensive art collection, the captain cut the cargo loose and it fell into the sea. While the cargo containing his wife's expensive art collection sank to the bottom of the sea, the captain was able to survive the storm and returned home safely.

Please rate how much you agree or disagree with the following statement:

"The ship captain was forced to cut the cargo loose and let it fall into the sea."

Strongly Disagree

Strongly Agree

1 2

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Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the captain could have done differently."

Not at all relevant

Highly relevant

".... what the captain could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The captain knew that a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

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"The captain *should* have known whether or not a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

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Pen - Neutral

Please imagine the following scenario:

The receptionist in the philosophy department keeps her desk stocked with pens. Both the administrative assistants and the faculty members are allowed to take the pens, and both the administrative assistants and the faculty members typically do take the pens. The receptionist has repeatedly e-mailed them reminders that both administrators and professors are allowed to take the pens.

On Monday, a brand new Professor, Professor Smith, starts her new job in the philosophy department. Even though she was recently appointed, she has received the emails that are repeatedly sent out by the receptionist, and knows that both administrators and professors are allowed to take pens. Early that morning, one of the administrative assistants encounters Professor Smith walking past the receptionist's desk. Both take pens. Later that day, the receptionist needs to take an important message...but she has a problem. There are no pens left on her desk.

Please rate how much you agree or disagree with the following statement:

"Prof. Smith caused the problem."

Strongly Disagree

Strongly Agree

1 2

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Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Prof. Smith could have done differently."

Not at all relevant

Highly relevant

".... what Prof. Smith could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"Prof. Smith knew that only administrative assistants are allowed to take pens."



"Prof. Smith *should* have known whether or not only administrative assistants are allowed to take pens."



Homeless - neutral

Please imagine the following scenario:

Dr. Bennett is an emergency-room physician. An unconscious homeless man is brought in, and his identity is unknown. Despite his homelessness, the man is wearing a tidy suit. The man's organ systems have shut down and a nurse has hooked him up to a respirator. Without the respirator he would die. With the respirator and some attention from Dr. Bennett he would live for a week or two, but he would never regain consciousness and could not live longer than two weeks.

Dr. Bennett recognizes the man as homeless and thinks to himself, "This poor man deserves to die with dignity. He shouldn't spend his last days hooked up to such a horrible machine. The best thing to do would be to disconnect him from the machine." For just that reason, Dr. Bennett disconnects the homeless man from the respirator, and the man quickly dies.

Please indicate your tendency concerning the following question:

"Is it more appropriate to say that Dr. Bennett ended the homeless man's life, or that he allowed it to end?"



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Dr. Bennett could have done differently."



Not at all relevant

Highly relevant

".... what Dr. Bennett could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"Dr. Bennett knew that the man in front of him was a homeless person."

Strongly Disagree

Strongly Agree

1 2

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4

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7

"Dr. Bennett *should* have known whether or not the man in front of him was a homeless person."

Strongly Disagree

Strongly Agree

1 2

3

4

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vice-president - neutral

Please imagine the following scenario:

The vice-president of a company went to the chairman of the board and said, "We are thinking of starting a new program. It will help us increase profits, and it will also help the environment". The chairman of the board answered, "I don't care at all about helping the environment. I just want to make as much profit as I can. Let's start the new program." They started the new program. Sure enough, the environment was helped.

Please rate how much you agree or disagree with the following statement:

"The chairman of the board intentionally helped the environment."

Strongly disagree

Strongly agree

Strongly disagree 3 4 **Strongly agree** 6 7

1 2 3 4 5 6 7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the chairman could have done differently."

Not at all relevant

Highly relevant

".... what the chairman could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The chairman knew that the program harms the environment."

Strongly Disagree 3 4 **Strongly Agree**

1 2 3 4 5 6 7

"The chairman *should* have known whether or not the program harms the environment."

Strongly Disagree 3 4 **Strongly Agree**

1 2 3 4 5 6 7

happiness - morally good

Please imagine the following scenario:

After going to nursing school for several years, Sarah got a job at the children's hospital and sees many different children each day. This is the job she has always wanted. Almost every single day

Sarah feels good and generally experiences a lot of pleasant emotions. In fact, it is very rare that she would ever feel negative emotions like sadness or loneliness. When Sarah thinks about her life, she always comes to the same conclusion: she feels highly satisfied with the way she lives.

The reason Sarah feels this way is that she tries to help the sick children by giving them vitamins that taste like gummy bears. Sarah doesn't really know how many children have been helped by her, but she likes to think about it when she falls asleep at night.

Please rate how much you agree or disagree with the following statement:

"Sarah is happy."



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Sarah could have done differently."

Not at all relevant	Highly relevant
----------------------------	------------------------

".... what Sarah could have known."

Not at all relevant	Highly relevant
----------------------------	------------------------

Please rate how much you agree or disagree with the following:

"Sarah knew that the gummy vitamins contain pesticides."



"Sarah should have known whether or not the gummy vitamins contain pesticides."

Strongly Disagree

Strongly Agree

1 2

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Force1 (Ship) ACTIVE - neutral

Please imagine the following scenario:

While sailing on the sea, a large storm came upon a captain and his ship. As the waves began to grow larger, the captain realized that his small vessel was too heavy and the ship would flood if he didn't make it lighter.

The only way that the captain could keep the ship from capsizing was to throw cargo overboard which is weighing the ship down. The captain and his sailors know that the cargo contains the captain's wife's expensive art collection because that is what they packed into the cargo.

Thinking quickly, the captain ordered one of his sailors to cut the cargo loose, fully realizing the cargo contains his wife's expensive art collection. While the cargo containing his wife's expensive art collection sank to the bottom of the sea, the captain and his ship survived the storm and returned home safely.

Please respond to the following statement:

"Did the captain force the sailor to throw the cargo with the art collection overboard"?

Not at all

Absolutely

1 2

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Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the captain could have done differently."

Not at all relevant

Highly relevant

".... what the captain could have known."

Not at all relevant

Highly relevant

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The captain knew that a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

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"The captain *should* have known whether or not a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Force1 (Ship) PASSIVE - neutral

Please imagine the following scenario:

While sailing on the sea, a large storm came upon a captain and his ship. As the waves began to grow larger, the captain realized that his small vessel was too heavy and the ship would flood if he didn't make it lighter.

The only way that the captain could keep the ship from capsizing was to throw cargo overboard which is weighing the ship down. The captain and his sailors know that the cargo contains the captain's wife's expensive art collection because that is what they packed into the cargo.

Thinking quickly, the captain ordered one of his sailors to cut the cargo loose, fully realizing the cargo contains his wife's expensive art collection. While the cargo containing his wife's expensive art collection sank to the bottom of the sea, the captain and his ship survived the storm and returned home safely.

Please respond to the following statement:

"Was the sailor forced to throw the cargo with the art collection overboard?"

	Not at all		Absolutely
1 2 Not at all	3	4	5 Absolutely
1 2	3	4	5 6

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the captain could have done differently."

Not at all relevant	Highly relevant
----------------------------	------------------------

".... what the captain could have known."

Not at all relevant	Highly relevant
----------------------------	------------------------

Please rate how much you agree or disagree with the following:

"The captain knew that a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree	Strongly Agree				
1 2	3	4	5	6	7

"The captain *should* have known whether or not a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree	Strongly Agree				
1 2	3	4	5	6	7

At a certain hospital, there were very specific rules about the procedures doctors had to follow. The rules said that doctors didn't necessarily have to take the advice of consulting physicians but that they did have to follow the orders of the chief of surgery. One day, the chief of surgery ordered a doctor to prescribe the drug Accuphine for a patient. The doctor had always really liked the patient and wanted her to recover as quickly as possible. However, both the doctor and the chief knew that giving this patient Accuphine would result in an immediate recovery. The doctor went ahead and prescribed Accuphine. The patient recovered immediately.

Please respond to the following statement:

"Did the chief of surgery force the doctor to prescribe Accuphine?"

Not at all

Absolutely

1 2

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Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the doctor could have done differently."

Not at all relevant

Highly relevant

".... what the doctor could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The doctor knew that giving the patient Accuphine was going to result in the patient's death."

Strongly Disagree

Strongly Agree

1 2

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4

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"The doctor *should* have known whether or not giving the patient Accuphine was going to result in the patient's death."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

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Force2 (Hospital) PASSIVE - Neutral

Please imagine the following scenario:

At a certain hospital, there were very specific rules about the procedures doctors had to follow. The rules said that doctors didn't necessarily have to take the advice of consulting physicians but that they did have to follow the orders of the chief of surgery. One day, the chief of surgery ordered a doctor to prescribe the drug Accuphine for a patient. The doctor had always really liked the patient and wanted her to recover as quickly as possible. However, both the doctor and the chief knew that giving patient Accuphine would result in an immediate recovery. The doctor went ahead and prescribed Accuphine. The patient recovered immediately.

Please respond to the following statement:

"Was the doctor forced to prescribe Accuphine?"

Not at all

Absolutely

1 2

3

4

5

6

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Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the doctor could have done differently."

Not at all relevant

Highly relevant

".... what the doctor could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The doctor knew that giving the patient Accuphine was going to result in the patient's death."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The doctor *should* have known whether or not giving the patient Accuphine was going to result in the patient's death?"

Strongly Disagree

Strongly agree

1 2

3

4

5

6

7

Battery, Conjunctive - Neutral

Please imagine the following scenario:

Billy and Suzy inherited an unusual type of hybrid car that has two special car batteries called Bartlett batteries. The car won't start unless it has two Bartlett batteries. Having one battery isn't enough to start the car. When they got the car, both Bartlett batteries were missing.

One day, Billy and Suzy are both out of the house. Billy is visiting his friend's house, and notices that his friend has a Bartlett battery as well as a Bartlett memory card. Billy asks his friend to sell the Bartlett battery to him. His friend, who is in the basement when Billy asks for the battery, has heard Billy's question. Despite the distance, the friend correctly understood the question to be about the Bartlett battery. He replies to Billy that he is willing to give it away.

Fully realizing that his friend has agreed to give away the Bartlett battery, Billy takes the Bartlett battery.

Meanwhile, on the other side of town, Suzy walks into an automotive parts shop and happens to notice that they have a single Bartlett battery in stock. Suzy decides to buy the Bartlett battery from the shop. When Billy and Suzy get home, they installed the two Bartlett batteries.

Since the car now had both Bartlett batteries, they were able to start the car.

Please rate how much you agree or disagree with the following statement:

"They were able to start the car because of Billy."

	Disagree						Agree		
	Disagree						Agree		
0	10	20	30	40	50	60	70	80	90
0	10	20	30	40	50	60	70	80	100

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Billy could have done differently."

Not at all relevant

Highly relevant

".... what Billy could have known."

Not at all relevant

Highly relevant

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy

Not at all relevant

Highly relevant

0	10	20	30	40	50	60	70	80	90	100
---	----	----	----	----	----	----	----	----	----	-----

Please rate how much you agree or disagree with the following:

"**Billy knew that he was not allowed to take the Bartlett Battery.**"

Strongly Disagree

Strongly Agree

1 2

3

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5

6

7

"**Billy should have known whether or not he was allowed to take the Bartlett Battery.**"

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Who takes a Bartlett Battery despite not being allowed to?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy nor Suzy

How many Bartlett Batteries does it take to start the car?

- One.
- Two.

Battery, Disjunctive - Neutral

Please imagine the following scenario:

Billy and Suzy inherited an unusual type of hybrid car that has two special car batteries called Bartlett batteries. The car won't start unless it has at least one Bartlett battery. Having a second Bartlett battery isn't necessary to start the car. When they got the car, both Bartlett batteries were missing.

One day, Billy and Suzy are both out of the house. Billy is visiting his friend's house, and notices that his friend has a Bartlett battery as well as a Bartlett memory card. Billy asks his friend to sell the Bartlett battery to him. His friend, who is in the basement when Billy asks for the battery, has heard Billy's question. Despite the distance, the friend correctly understood the question to be about the Bartlett battery. He replies to Billy that he is willing to give it away.

Fully realizing that his friend has agreed to give away the Bartlett battery, Billy takes the Bartlett battery.

Meanwhile, on the other side of town, Suzy walks into an automotive parts shop and happens to notice that they have a single Bartlett battery in stock. Suzy decides to buy the Bartlett battery from the shop. When Billy and Suzy get home, they installed the two Bartlett batteries.

Since all the car needed was at least one Bartlett battery, they were able to start the car.

Please rate how much you agree or disagree with the following statement:

"They were able to start the car because of Billy."



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

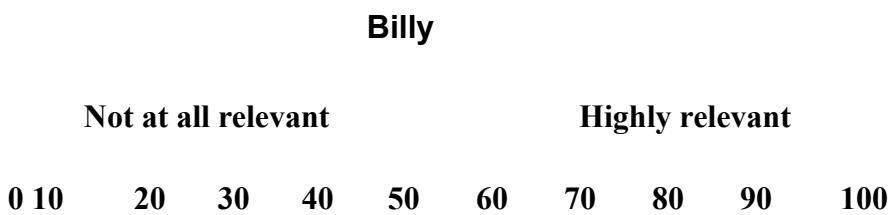
".... what Billy could have done differently."

Not at all relevant		Highly relevant
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".... what Billy could have known."

Not at all relevant		Highly relevant
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Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:



Please rate how much you agree or disagree with the following:

"Billy knew that he was not allowed to take the Bartlett Battery."

Strongly Disagree		Strongly Agree			
1 2	3	4	5	6	7

"Billy should have known whether or not he was allowed to take the Bartlett Battery."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Who takes a Bartlett Battery despite not being allowed to?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy nor Suzy

How many Bartlett Batteries does it take to start the car?

- One.
- Two.

Bridge, Conjunctive - Neutral

Please imagine the following scenario:

Billy and Suzy are freight train conductors. On this day, they are both driving on the same railway route. However, Billy usually does not drive on this route, but was spontaneously deployed in the morning to drive this route to transport freight. On this day, they happen to approach an old two-way rail bridge from opposite directions at the same time. There are signals on either side of the bridge.

The signal system on this route uses a different colour scheme than usual. A red light means "Go!", and a green light means "Stop!". Although Billy usually does not drive on this route, he knows about this special colour system on this route.

Billy's signal is red, so he knows he is supposed to drive across the bridge immediately. Suzy's signal is red, so she knows she is also supposed to drive across immediately.

Neither of them realizes that the bridge is on the verge of collapse. If they both drive their trains onto the bridge at the same time, it will collapse. Neither train is heavy enough on its own to break the bridge, but both together will be too heavy for it.

Fully realizing he is supposed to drive, Billy follows his signal and drives his train onto the bridge immediately at the same time that Suzy follows her signal and drives her train onto the bridge. Both trains move onto the bridge at the same time, and at that moment the bridge collapses.

Please rate how much you agree or disagree with the following statement:

"Billy caused the bridge to collapse."



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Billy could have done differently."

Not at all relevant

Highly relevant

".... what Billy could have known."

Not at all relevant

Highly relevant

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy

Not at all relevant

Highly relevant



Please rate how much you agree or disagree with the following:

"Billy knew that his signal meant that he was supposed to stop."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

“Billy *should* have known whether or not his signal meant that he was supposed to stop.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Who was supposed to stop and wait according to their signal?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy nor Suzy

Under which condition will the bridge collapse?

- Neither train is heavy enough on its own to break the bridge, but both together will be too heavy for it.
- Either train is heavy enough on its own to break the bridge.

Bridge, Disjunctive - Neutral

Please imagine the following scenario:

Billy and Suzy are freight train conductors. On this day, they are both driving on the same railway route. However, Billy usually does not drive on this route, but was spontaneously deployed in the morning to drive this route to transport freight. On this day, they happen to approach an old two-way rail bridge from opposite directions at the same time. There are signals on either side of the bridge.

The signal system on this route uses a different colour scheme than usual. A red light means “Go!”, and a green light means “Stop!”. Although Billy usually does not drive on this route, he knows about this special colour system on this route.

Billy’s signal is red, so he knows he is supposed to drive across the bridge immediately. Suzy’s signal is red, so she knows she is also supposed to drive across immediately.

Neither of them realizes that the bridge is on the verge of collapse. If either of them drives their train onto the bridge, it will collapse. Either train is heavy enough on its own to break the bridge.

Fully realizing he is supposed to drive, Billy follows his signal and drives his train onto the bridge immediately at the same time that Suzy follows her signal and drives her train onto the bridge. Both trains move onto the bridge at the same time, and at that moment the bridge collapses.

Please rate how much you agree or disagree with the following statement:

"Billy caused the bridge to collapse."



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Billy could have done differently."

Not at all relevant		Highly relevant
---------------------	--	-----------------

".... what Billy could have known."

Not at all relevant		Highly relevant
---------------------	--	-----------------

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy



Please rate how much you agree or disagree with the following:

“Billy knew that his signal meant that he was supposed to stop.”

Strongly Disagree		Strongly Agree				
1	2	3	4	5	6	7

“Billy *should* have known whether or not his signal meant that he was supposed to stop.”

Strongly Disagree

Strongly Agree

1 2

3

4

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6

7

Who was supposed to stop and wait according to their signal?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy nor Suzy

Under which condition will the bridge collapse?

- Neither train is heavy enough on its own to break the bridge, but both together will be too heavy for it.
- Either train is heavy enough on its own to break the bridge.

Motion Detector, Conjunctive - Neutral

Please imagine the following scenario:

Suzy and Billy are working on a project that is very important for our nation's security. Usually, the boss sends out e-mails with instructions for the next day. If no other instructions are given, both Suzy and Billy come into the office at 9am in the morning.

One day, the boss sends out an e-mail to both Suzy and Billy with instructions for the next day: "Be sure that you are here at exactly 9am. It is absolutely essential that you arrive at that time." Both receive the e-mail and learn about their instructions for the next day.

The next day, both Billy and Suzy arrive at 9am.

As it happens there was a motion detector installed in the room where they arrived. The motion detector was set up to be triggered if *more than one person* appeared in the room at the same time. So the motion detector went off.

Please rate how much you agree or disagree with the following statement:

"Billy caused the motion detector to go off."

Disagree

Agree

0 10 20 30 40 50 60 70 80 90 100

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Billy could have done differently."

Not at all relevant

Highly relevant

".... what Billy could have known."

Not at all relevant

Highly relevant

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy

Not at all relevant

Highly relevant

0 10 20 30 40 50 60 70 80 90 100

Please rate how much you agree or disagree with the following:

“Billy knew that he was not supposed to come in at 9am that day.”

Strongly Disagree

Strongly Agree

1 2

3

4

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6

7

“Billy *should* have known whether or not he was not supposed to come in at 9am that day.”

Strongly Disagree

Strongly Agree

Strongly Disagree 3 4 Strongly Agree 7

1 2 3 4 5 6 7

Who was not supposed to show up at 9am?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy and Suzy

The motion detector goes off when it detected how many people?

- One or more.
- Two or more.

Motion Detector, Disjunctive - Neutral

Please imagine the following scenario:

Suzy and Billy are working on a project that is very important for our nation's security. Usually, the boss sends out e-mails with instructions for the next day. If no other instructions are given, both Suzy and Billy come into the office at 9am in the morning.

One day, the boss sends out an e-mail to both Suzy and Billy with instructions for the next day: "Be sure that you are here at exactly 9am. It is absolutely essential that you arrive at that time." Both receive the e-mail and learn about their instructions for the next day.

The next day, both Billy and Suzy arrive at 9am.

As it happens there was a motion detector installed in the room where they arrived. The motion detector was set up to be triggered if *at least one person* appeared in the room. So the motion detector went off.

Please rate how much you agree or disagree with the following statement:

"Billy caused the motion detector to go off."

Disagree

Agree

0 10 20 30 40 50 60 70 80 90 100

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently,

please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Billy could have done differently."

Not at all relevant

Highly relevant

".... what Billy could have known."

Not at all relevant

Highly relevant

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy

Not at all relevant

Highly relevant

0 10 20 30 40 50 60 70 80 90 100

Please rate how much you agree or disagree with the following:

“Billy knew that he was not supposed to come in at 9am that day.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

“Billy **should** have known whether or not he was not supposed to come in at 9am that day.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

The motion detector goes off when it detected how many people?

- One or more.
- Two or more.

Who was not supposed to show up at 9am?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy and Suzy

Computer, Conjunctive - Neutral

Please imagine the following scenario:

Billy and Suzy work for a company that has a central computer. If two people log in to the central computer at exactly 9:27am, some work e-mails will be immediately deleted.

In order to make sure that two people are available to answer phone calls during designated calling hours, the company issued the following new official policy: Billy and Suzy are both permitted to log in to the central computer in the mornings, and neither of them are permitted to log in to the central computer in the afternoons.

The secretary of the company informs Suzy and Billy about the new policy by sending them an e-mail. Both receive the e-mail and learn about the new policy.

This morning at exactly 9:27am, Billy and Suzy both log into the central computer at the same time. Immediately, some work e-mails are deleted.

Please rate how much you agree or disagree with the following statement:

"Billy caused the e-mails to be deleted."



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Billy could have done differently."

Not at all relevant

Highly relevant

".... what **Billy** could have known."

Not at all relevant

Highly relevant

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy

Not at all relevant

Highly relevant

0 10 20 30 40 50 60 70 80 90 100

Please rate how much you agree or disagree with the following:

"**Billy knew that he was not supposed to log into the central computer in the mornings.**"

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"**Billy should have known whether or not he was not supposed to log into the central computer in the mornings**"

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Who is not permitted to log in to the central computer in the mornings?

- Both Suzy and Billy
- Suzy
- Billy
- Neither Suzy nor Billy

Some work e-mails will be deleted if ...

- anyone logs into the central computer at 9:27am.
- two people log into the central computer at 9:27am.

Computer, Disjunctive - Neutral

Please imagine the following scenario:

Billy and Suzy work for a company that has a central computer. If anyone logs in to the central computer at exactly 9:27am, some work e-mails will be immediately deleted.

In order to make sure that two people are available to answer phone calls during designated calling hours, the company issued the following new official policy: Billy and Suzy are both permitted to log in to the central computer in the mornings, and neither of them are permitted to log in to the central computer in the afternoons.

The secretary of the company informs Suzy and Billy about the new policy by sending them an e-mail. Both receive the e-mail and learn about the new policy.

This morning at exactly 9:27am, Billy and Suzy both log into the central computer at the same time. Immediately, some work e-mails are deleted.

Please rate how much you agree or disagree with the following statement:

"Billy caused the e-mails to be deleted."



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Billy could have done differently."

Not at all relevant

Highly relevant

".... what Billy could have known."

Not at all relevant

Highly relevant

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy



Please rate how much you agree or disagree with the following:

“Billy knew that he was not supposed to log into the central computer in the mornings.”



“Billy **should** have known whether or not he was not supposed to log into the central computer in the mornings”



Who is not permitted to log in to the central computer in the mornings?

- Both Suzy and Billy
- Suzy
- Billy
- Neither Suzy nor Billy

Some work e-mails will be deleted if ...

- anyone logs into the central computer at 9:27am.
- two people log into the central computer at 9:27am.

Desire/decide - Neutral

Please imagine the following scenario:

The vice-president of a company went to the chairman of the board and said, "We are thinking of starting a new program. It will help us increase profits, and it will also help the environment". The chairman of the board answered, "I don't care at all about helping the environment. I just want to make as much profit as I can. Let's start the new program." They started the new program. Sure enough, the environment was helped.

Please rate how much you agree or disagree with the following statements:

"Did the chairman have a desire to help the environment?"

Disagree

Agree

1 2

3

4

5

6

7

"The chairman decided to help the environment."

Disagree

Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the chairman could have done differently."

Not at all relevant

Highly relevant

".... what the chairman could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

“The chairman knew that he was harming the environment.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The chairman should have known whether or not he was harming the environment."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Advocate/in favor of - Neutral

Please imagine the following scenario:

The management of a popular coffee franchise held a meeting to discuss a new procedure for preparing and serving coffee.

The assistant manager spoke forcefully in favor of adopting the new procedure, saying:

"I know that this new procedure will mean less work for the employees, which will make them very happy. But that is not what we should be concerned about. The new procedure will increase profits, and that should be our goal."

Please rate how much you agree or disagree with the following statements:

"The assistant manager advocated making the employees do less work."

Disagree

Agree

1 2

3

4

5

6

7

"The assistant manager was in favor of making the employees do less work."

Disagree

Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the assistant manager could have done differently."

Not at all relevant

Highly relevant

".... what the assistant manager could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

“The assistant manager knew he was making the employees do more work.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

“The assistant manager should have known whether or not he was making the employees do more work.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Opposed to - Neutral

Please imagine the following scenario:

The CEO of a company was talking with his assistant. The assistant said: ‘We have conducted an in-depth study of the company’s proposed new policy. Our study shows that the new policy would decrease profits for the company and that it would also help the environment.’

The CEO said: ‘Look, I don’t really care about what happens to the environment. What I care about is making sure that our profits don’t decrease. So, with that in mind, let’s definitely not implement that new policy.’

Please rate how much you agree or disagree with the following statements:

“The CEO was opposed to helping the environment.”

Disagree

Agree

1 2 Disagree 3 4 5 Agree 6 7

1 2 3 4 5 6 7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the CEO could have done differently."

Not at all relevant

Highly relevant

".... what the CEO could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

“The CEO knew that the policy would harm the environment.”

Strongly Disagree

Strongly Agree

1 2 3 4 5 6 7

“The CEO should have known whether or not the policy would harm the environment.”

Strongly Disagree

Strongly Agree

1 2 3 4 5 6 7

Intended to/wanted to - Neutral

Please imagine the following scenario:

A man wants to trigger a mechanism that is linked to a bomb that will kill thousands of innocent tourists if it explodes. The man knows that this mechanism defuses the bomb. The only way to trigger the mechanism is

to enter the correct code on a keypad, but the man does not know the code. There is only a one in ten million chance of his guessing the code. The man is fully aware that there is virtually no chance that he will successfully trigger the mechanism, but he desperately wants to save the tourists. So, without even looking at the keypad, he just randomly presses some keys.

Please rate how much you agree or disagree with the following statements:

"The man intended to defuse the bomb."

Disagree

Agree

1 2

3

4

5

6

7

"The man wanted to defuse the bomb."

Disagree

Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the man could have done differently."

Not at all relevant

Highly relevant

".... what the man could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

“The man knew he was detonating the bomb.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

“The man should have known whether or not he was detonating the bomb.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Ship Modal Proxy - Neutral

Please imagine the following scenario:

While sailing on the sea, a large storm came upon a captain and his ship. As the waves began to grow larger, the captain realized that his small vessel was too heavy and the ship would flood if he didn't make it lighter. The only way that the captain could keep the ship from capsizing was to cut the cargo loose which is weighing the ship down. The captain knows that the cargo contains his wife's expensive art collection because that is what he packed into the cargo.

Fully realizing the cargo contains his wife's expensive art collection, the captain cut the cargo loose and it fell into the sea. While the cargo containing his wife's expensive art collection sank to the bottom of the sea, the captain was able to survive the storm and returned home safely.

Please rate how much you agree or disagree with the following statement:

“Given the circumstances, the captain had to cut the cargo loose and let it fall into the sea.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

“.... what the captain could have done differently.”

Not at all relevant

Highly relevant

".... what the captain could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The captain knew that a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The captain should have known whether or not a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Pen Modal Proxy - Neutral

Please imagine the following scenario:

The receptionist in the philosophy department keeps her desk stocked with pens. Both the administrative assistants and the faculty members are allowed to take the pens, and both the administrative assistants and the faculty members typically do take the pens. The receptionist has repeatedly e-mailed them reminders that both administrators and professors are allowed to take the pens.

On Monday, a brand new Professor, Professor Smith, starts her new job in the philosophy department. Even though she was recently appointed, she has received the emails that are repeatedly sent out by the receptionist, and knows that both administrators and professors are allowed to take pens. Early that morning, one of the administrative assistants encounters Professor Smith walking past the receptionist's desk. Both take pens. Later that day, the receptionist needs to take an important message...but she has a problem. There are no pens left on her desk.

Please rate how much you agree or disagree with the following statement:

"Given the actions of the professor, the problem had to occur."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Please rate how much you agree or disagree with the following statement:

"Given the actions of the administrative assistant, the problem had to occur."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the Professor could have done differently."

Not at all relevant

Highly relevant

".... what the Professor could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"Prof. Smith knew that only administrative assistants are allowed to take pens."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"Prof. Smith *should* have known whether or not only administrative assistants are allowed to take pens."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Bullseye Modal Proxy - Neutral

Please imagine the following scenario:

Jake takes part in a rifle contest. His aunt accompanies him to the rifle contest and watches him from the sideline. Jake desperately wants to win the rifle contest. He knows that he will only win the contest if he hits the bull's-eye. He also knows that the rifle bullets that are used in this contest have so much speed that they usually pierce through the target. He raises the rifle, gets the bull's-eye in the sights, and presses the trigger. But Jake is not very good at using his rifle. His hand slips on the barrel of the gun, and the shot goes wild. Nonetheless, the bullet lands directly on the bull's-eye and goes through the target. Jake wins the contest.

Please rate how much you agree or disagree with the following statement:

"Jake hit the bull's-eye through sheer luck"

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Jake could have done differently."

Not at all relevant

Highly relevant

".... what Jake could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"Jake knew that the rifle bullets would pierce through the target and hit his aunt."

Strongly Disagree
Strongly Disagree

1 2

3

4

Strongly Agree
Strongly Agree

5

6

7

"Jake *should* have known whether or not the rifle bullets would pierce through the target and hit his aunt"

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Gizmos - Neutral

Please imagine the following scenario:

The convention in the Gizmo industry is for Gizmos to be a dark color. Specifically, the convention is to make Gizmos that are colored darker than blue. The vice-president of a company in the Gizmo industry went to the chairman of the board and said, "We are thinking of starting a new program. It will help us increase profits, but it will result in our Gizmos being colored black. The convention is to make Gizmos colored darker than blue, so we would be complying with the convention." The chairman of the board answered, "I don't care at all about the color of the Gizmos. I just want to make as much profit as I can. Let's start the new program." They started the program. As it happened, the Gizmos were black, colored darker than blue.

Please rate how much you agree or disagree with the following statement:

"How appropriate is it to say the chairman of the board intentionally made Gizmos colored darker than blue?"

Not at All Appropriate

Very Appropriate

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the chairman could have done differently."

Not at all relevant

Highly relevant

".... what the chairman could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The chairman of the board knew the color conventions of Gizmos."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The chairman of the board *should* have known the color conventions of Gizmos"

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Scrubs - Neutral

Please imagine the following scenario:

There is a convention in medicine that medical students wear darker-colored scrubs than doctors. Specifically, the convention is for medical students to wear dark blue scrubs and doctors to wear light blue scrubs. An employee went to the Chief of Medicine and said, "We are thinking of buying our scrubs from a new medical supply company. Using this new company will save the hospital money, but we will only have one choice for color. Specifically, the medical students' scrubs will be dark blue, much darker than they are currently. The convention is for med students to wear dark blue, so we would be complying with the convention." The Chief of Medicine answered, "I don't care at all the color of medical students' scrubs. I just want to save money. Let's go with the new supply company." They bought from the new supply company. As a result, medical students' scrubs were dark blue.

Please rate how much you agree or disagree with the following statement:

"How appropriate is it to say the Chief of Medicine intentionally made Scrubs colored darker than blue?"

Not at All Appropriate

Very Appropriate

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the Chief of Medicine could have done differently."

Not at all relevant

Highly relevant

".... what the Chief of Medicine could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The Chief of Medicine knew the color conventions of Scrubs."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The Chief of Medicine *should* have known the color conventions of Scrubs"

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Truck Trailers - Neutral

Please imagine the following scenario:

The convention in the trucking industry is to have truck trailers that are colored darker than blue. An employee at a trucking company went to the boss and said, "We are thinking of changing the paint we use for the truck trailers. It will help cut costs, but it will result in our trailers being black. The convention is to have trailers colored darker than blue, so we would be complying with the convention." The boss answered, "I don't care at all about the color of the trailers. I just want to cut costs as much as I can. Let's start the new program." They started the program. As it happened, the trailers were black, colored darker than blue.

Please rate how much you agree or disagree with the following statement:

"How appropriate is it to say the boss intentionally made truck trailers colored darker than blue?"



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the boss could have done differently."



".... what the boss could have known."



Please rate how much you agree or disagree with the following:

"The boss knew the color conventions of truck trailers."



"The boss *should* have known the color conventions of truck trailers"



Please imagine the following scenario:

While sailing on the sea, a large storm came upon a captain and his ship. As the waves began to grow larger, the captain realized that his small vessel was too heavy and the ship would flood if he didn't make it lighter. The only way that the captain could keep the ship from capsizing was to cut the cargo loose which is weighing the ship down. The captain knows that the cargo contains his wife's expensive art collection because that is what he packed into the cargo. However, he also learned that a number of illegal passengers have hidden in the cargo boxes before the ship left the harbor.

Fully realizing the cargo contains passengers, the captain cut the cargo loose and it fell into the sea. While the cargo containing the illegal passengers sank to the bottom of the sea, the captain was able to survive the storm and returned home safely.

Please rate how much you agree or disagree with the following statement:

"The ship captain was forced to cut the cargo loose and let it fall into the sea."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the captain could have done differently."

Not at all relevant

Highly relevant

".... what the captain could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The captain knew that a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The captain *should* have known whether or not a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Pen - Immoral, Knowledge

Please imagine the following scenario:

The receptionist in the philosophy department keeps her desk stocked with pens. The administrative assistants are allowed to take pens, but faculty members are supposed to buy their own. The administrative assistants typically do take the pens. Unfortunately, so do the faculty members. The receptionist has repeatedly e-mailed them reminders that only administrators are allowed to take the pens.

On Monday, a brand new professor, Professor Smith, starts her new job in the philosophy department. Even though she was recently appointed, she has received the emails that are repeatedly sent out by the receptionist, and knows that only administrators are allowed to take pens. Early that morning, one of the administrative assistants encounters Professor Smith walking past the receptionist's desk. Both take pens. Later that day, the receptionist needs to take an important message...but she has a problem. There are no pens left on her desk.

Please rate how much you agree or disagree with the following statement:

"Prof. Smith caused the problem."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Prof. Smith could have done differently."

Not at all relevant

Highly relevant

".... what Prof. Smith could have known."

Not at all relevant

Highly relevant

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"Prof. Smith knew that only administrative assistants are allowed to take pens."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"Prof. Smith *should* have known whether or not only administrative assistants are allowed to take pens."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Homeless - immoral, knowledge

Please imagine the following scenario:

Dr. Bennett is an emergency-room physician. An unconscious homeless man is brought in, and his identity is unknown. Despite his homelessness, the man is wearing a tidy suit. The man's organ systems have shut down and a nurse has hooked him up to a respirator. Without the respirator he would die. With the respirator and some attention from Dr. Bennett he would live for a week or two, but he would never regain consciousness and could not live longer than two weeks.

Dr. Bennett recognizes the man as homeless and thinks to himself, "This bum deserves to die. He shouldn't sit here soaking up my valuable time and resources. The best thing to do would be to disconnect him from the machine." For just that reason, Dr. Bennett disconnects the homeless man from the respirator, and the man quickly dies.

Please indicate your tendency concerning the following question:

**"Is it more appropriate to say that Dr. Bennett ended the homeless man's life,
or that he allowed it to end?"**

Allowed to end

Ended

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently,

please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Dr. Bennett could have done differently."

Not at all relevant

Highly relevant

".... what Dr. Bennett could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"Dr. Bennett knew that the man in front of him was a homeless person."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"Dr. Bennett *should* have known whether or not the man in front of him was a homeless person."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

vice-president - immoral, knowledge

Please imagine the following scenario:

The vice-president of a company went to the chairman of the board and said, "We are thinking of starting a new program. It will help us increase profits, and it will also harm the environment." The chairman of the board answered, "I don't care at all about harming the environment. I just want to make as much profit as I can. Let's start the new program." They started the new program. Sure enough, the environment was harmed.

Please rate how much you agree or disagree with the following statement:

"The chairman of the board intentionally harmed the environment."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the chairman could have done differently."

Not at all relevant

Highly relevant

".... what the chairman could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The chairman knew that the program harms the environment."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The chairman should have known whether or not the program harms the environment."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

happiness - morally bad, knowledge

Please imagine the following scenario:

After going to nursing school for several years, Sarah got a job at the children's hospital and sees many different children each day. This is the job she has always wanted. Almost every single day Sarah feels good and generally experiences a lot of pleasant emotions. In fact, it is very rare that she would ever feel negative emotions like sadness or loneliness. When Sarah thinks about her life, she always comes to the same conclusion: she feels highly satisfied with the way she lives.

The reason Sarah feels this way is that she tries to poison the sick children by giving them vitamins that have pesticides inside of them. Sarah doesn't really know how many children have been harmed by her, but she likes to think about it when she falls asleep at night.

Please rate how much you agree or disagree with the following statement:

"Sarah is happy."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Sarah could have done differently."

Not at all relevant

Highly relevant

".... what Sarah could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"Sarah knew that the gummy vitamins contain pesticides."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"Sarah should have known whether or not the gummy vitamins contain pesticides."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Force1 (Ship) ACTIVE - immoral, knowledge

Please imagine the following scenario:

While sailing on the sea, a large storm came upon a captain and his ship. As the waves began to grow larger, the captain realized that his small vessel was too heavy and the ship would flood if he didn't make it lighter.

The only way that the captain could keep the ship from capsizing was to throw cargo overboard which is weighing the ship down. The captain and his sailors know that the cargo contains the captain's wife's expensive art collection because that is what they packed into the cargo. However, they also learned that a number of illegal passengers hid in the cargo boxes before the ship left the harbor.

Thinking quickly, the captain ordered one of his sailors to cut the cargo loose, fully realizing the cargo contains passengers. While the cargo containing the illegal passengers sank to the bottom of the sea, the captain and his ship survived the storm and returned home safely.

Please respond to the following statement:

"Did the captain force the sailor to throw the cargo with the passengers overboard?"

Not at all

Absolutely

1 2

3

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6

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Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the captain could have done differently."

Not at all relevant

Highly relevant

".... what the captain could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The captain knew that a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

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"The captain *should* have known whether or not a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Force1 (Ship) PASSIVE - immoral, knowledge

Please imagine the following scenario:

While sailing on the sea, a large storm came upon a captain and his ship. As the waves began to grow larger, the captain realized that his small vessel was too heavy and the ship would flood if he didn't make it lighter.

The only way that the captain could keep the ship from capsizing was to throw cargo overboard which is weighing the ship down. The captain and his sailors know that the cargo contains the captain's wife's expensive art collection because that is what they packed into the cargo. However, they also learned that a number of illegal passengers hid in the cargo boxes before the ship left the harbor.

Thinking quickly, the captain ordered one of his sailors to cut the cargo loose, fully realizing the cargo contains passengers. While the cargo containing the illegal passengers sank to the bottom of the sea, the captain and his ship survived the storm and returned home safely.

Please respond to the following statement:

"Was the sailor forced to throw the cargo with the passengers overboard?"



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the captain could have done differently."



".... what the captain could have known."



Please rate how much you agree or disagree with the following:

"The captain knew that a number of illegal passengers were hiding in the cargo boxes."



"The captain should have known whether or not a number of illegal passengers were hiding in the cargo boxes."



Force2 (Hospital) ACTIVE - Immoral, Knowledge

Please imagine the following scenario:

At a certain hospital, there were very specific rules about the procedures doctors had to follow. The rules said that doctors didn't necessarily have to take the advice of consulting physicians but that they did have to follow the orders of the chief of surgery. One day, the chief of surgery ordered a

doctor to prescribe the drug Accuphine for a patient. The doctor had always disliked this patient and actually didn't want her to be cured. However, both the doctor and the chief knew that giving this patient Accuphine would result in her death. The doctor went ahead and prescribed Accuphine. The patient died shortly thereafter.

Please respond to the following statement:

"Did the chief of surgery force the doctor to prescribe Accuphine?"

Not at all

Absolutely

1 2

3

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Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the doctor could have done differently."

Not at all relevant

Highly relevant

".... what the doctor could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The doctor knew that giving the patient Accuphine was going to result in the patient's death."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The doctor **should** have known whether or not giving the patient Accuphine was going to result in the patient's death."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Force2 (Hospital) PASSIVE - Immoral, Knowledge

Please imagine the following scenario:

At a certain hospital, there were very specific rules about the procedures doctors had to follow. The rules said that doctors didn't necessarily have to take the advice of consulting physicians but that they did have to follow the orders of the chief of surgery. One day, the chief of surgery ordered a doctor to prescribe the drug Accuphine for a patient. The doctor had always disliked this patient and actually didn't want her to be cured. However, both the doctor and the chief knew that giving this patient Accuphine would result in her death. The doctor went ahead and prescribed Accuphine. The patient died shortly thereafter.

Please respond to the following statement:

"Was the doctor forced to prescribe Accuphine?"

Not at all

Absolutely

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the doctor could have done differently."

Not at all relevant

Highly relevant

".... what the doctor could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The doctor knew that giving the patient Accuphine was going to result in the patient's death."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The doctor *should* have known whether or not giving the patient Accuphine was going to result in the patient's death?"

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Battery, Conjunctive - Immoral, Knowledge

Please imagine the following scenario:

Billy and Suzy inherited an unusual type of hybrid car that has two special car batteries called Bartlett batteries. The car won't start unless it has two Bartlett batteries. Having one battery isn't enough to start the car. When they got the car, both Bartlett batteries were missing.

One day, Billy and Suzy are both out of the house. Billy is visiting his friend's house, and notices that his friend has a Bartlett battery as well as a Bartlett memory card. Billy asks his friend to sell the Bartlett battery to him. His friend, who is in the basement when Billy asks for the battery, has heard Billy's question. However, despite the distance, the friend correctly understood the question to be about the Bartlett battery. He replies to Billy that he is not willing to give it away.

Fully realizing that his friend has not agreed to give away the Bartlett battery, Billy steals the Bartlett battery.

Meanwhile, on the other side of town, Suzy walks into an automotive parts shop and happens to notice that they have a single Bartlett battery in stock. Suzy decides to buy the Bartlett battery from the shop. When Billy and Suzy get home, they installed the two Bartlett batteries.

Since the car now had both Bartlett batteries, they were able to start the car.

Please rate how much you agree or disagree with the following statement:

"They were able to start the car because of Billy."

Disagree

Agree

0 10 20 30 40 50 60 70 80 90 100

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Billy could have done differently."

Not at all relevant

Highly relevant

".... what Billy could have known."

Not at all relevant

Highly relevant

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy

Not at all relevant

Highly relevant

0 10 20 30 40 50 60 70 80 90 100

Please rate how much you agree or disagree with the following:

“Billy knew that he was not allowed to take the Bartlett Battery.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

“Billy *should* have known whether or not he was allowed to take the Bartlett Battery.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Who takes a Bartlett Battery despite not being allowed to?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy nor Suzy

How many Bartlett Batteries does it take to start the car?

- One.
- Two.

Battery, Disjunctive - Immoral, Knowledge

Please imagine the following scenario:

Billy and Suzy inherited an unusual type of hybrid car that has two special car batteries called Bartlett batteries. The car won't start unless it has at least one Bartlett battery. Having a second Bartlett battery isn't necessary to start the car. When they got the car, both Bartlett batteries were missing.

One day, Billy and Suzy are both out of the house. Billy is visiting his friend's house, and notices that his friend has a Bartlett battery as well as a Bartlett memory card. Billy asks his friend to sell the Bartlett battery to him. His friend, who is in the basement when Billy asks for the battery, has heard Billy's question. However, despite the distance, his friend correctly understood the question to be about the Bartlett battery. He replies to Billy that he is not willing to give it away.

Fully realizing that his friend has not agreed to give away the Bartlett battery, Billy steals the Bartlett battery.

Meanwhile, on the other side of town, Suzy walks into an automotive parts shop and happens to notice that they have a single Bartlett battery in stock. Suzy decides to buy the Bartlett battery from the shop. When Billy and Suzy get home, they installed the two Bartlett batteries.

Since all the car needed was at least one Bartlett battery, they were able to start the car.

Please rate how much you agree or disagree with the following statement:

"They were able to start the car because of Billy."

Disagree

Agree

0 10 20 30 40 50 60 70 80 90 100

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Billy could have done differently."

Not at all relevant

Highly relevant

".... what Billy could have known."

Not at all relevant

Highly relevant

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy

Not at all relevant

Highly relevant

0 10 20 30 40 50 60 70 80 90 100

Please rate how much you agree or disagree with the following:

"Billy knew that he was not allowed to take the Bartlett Battery."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"Billy *should* have known whether or not he was allowed to take the Bartlett Battery."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Who takes a Bartlett Battery despite not being allowed to?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy nor Suzy

How many Bartlett Batteries does it take to start the car?

- One.
- Two.

Bridge, Conjunctive - Immoral, Knowledge

Please imagine the following scenario:

Billy and Suzy are freight train conductors. On this day, they are both driving on the same railway route. However, Billy usually does not drive on this route, but was spontaneously deployed in the morning to drive this route to transport freight. On this day, they happen to approach an old two-way rail bridge from opposite directions at the same time. There are signals on either side of the bridge.

The signal system on this route uses a different colour scheme than usual. A red light means "Go!", and a green light means "Stop!". Although Billy usually does not drive on this route, he knows about this special colour system on this route.

Billy's signal is green, so he knows he is supposed to stop and wait. Suzy's signal is red, so she knows she is supposed to drive across immediately.

Neither of them realizes that the bridge is on the verge of collapse. If they both drive their trains onto the bridge at the same time, it will collapse. Neither train is heavy enough on its own to break the bridge, but both together will be too heavy for it.

Fully realizing he is supposed to stop, Billy decides to ignore his signal and drives his train onto the bridge immediately at the same time that Suzy follows her signal and drives her train onto the bridge. Both trains move onto the bridge at the same time, and at that moment the bridge collapses.

Please rate how much you agree or disagree with the following statement:

"Billy caused the bridge to collapse."

Disagree

Agree

0 10 20 30 40 50 60 70 80 90 100

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Billy could have done differently."

Not at all relevant

Highly relevant

".... what Billy could have known."

Not at all relevant

Highly relevant

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy

Not at all relevant

Highly relevant

0 10 20 30 40 50 60 70 80 90 100

Please rate how much you agree or disagree with the following:

"Billy knew that his signal meant that he was supposed to stop."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"Billy *should* have known whether or not his signal meant that he was supposed to stop."

Strongly Disagree

Strongly Agree

Strongly Disagree 4 **Strongly Agree** 7

12

3

4

Strongly Agree

7

Who was supposed to stop and wait according to their signal?

- Both Billy and Suzy
 - Billy
 - Suzy
 - Neither Billy nor Suzy

Under which condition will the bridge collapse?

- Neither train is heavy enough on its own to break the bridge, but both together will be too heavy for it.
 - Either train is heavy enough on its own to break the bridge.

Bridge, Disjunctive - Immoral, Knowledge

Please imagine the following scenario:

Billy and Suzy are freight train conductors. On this day, they are both driving on the same railway route. However, Billy usually does not drive on this route, but was spontaneously deployed in the morning to drive this route to transport freight. On this day, they happen to approach an old two-way rail bridge from opposite directions at the same time. There are signals on either side of the bridge.

The signal system on this route uses a different colour scheme than usual. A red light means "Go!", and a green light means "Stop!". Although Billy usually does not drive on this route, he knows about this special colour system on this route.

Billy's signal is green, so he knows he is supposed to stop and wait. Suzy's signal is red, so she knows she is supposed to drive across immediately.

Neither of them realizes that the bridge is on the verge of collapse. If either of them drives their train onto the bridge, it will collapse. Either train is heavy enough on its own to break the bridge.

Fully realizing he is supposed to stop, Billy decides to ignore his signal and drives his train onto the bridge immediately at the same time that Suzy follows her signal and drives her train onto the bridge. Both trains move onto the bridge at the same time, and at that moment the bridge collapses.

Please rate how much you agree or disagree with the following statement:

"Billy caused the bridge to collapse."

A horizontal scale representing a Likert-type survey response. The scale is labeled "Disagree" on the left and "Agree" on the right. Numerical markers are placed at intervals of 10, starting from 10 and ending at 100.



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Billy could have done differently."

Not at all relevant		Highly relevant
---------------------	--	-----------------

".... what Billy could have known."

Not at all relevant		Highly relevant
---------------------	--	-----------------

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy



Please rate how much you agree or disagree with the following:

"Billy knew that his signal meant that he was supposed to stop."

Strongly Disagree		Strongly Agree			
1 2	3	4	5	6	7

"Billy *should* have known whether or not his signal meant that he was supposed to stop."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Who was supposed to stop and wait according to their signal?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy nor Suzy

Under which condition will the bridge collapse?

- Neither train is heavy enough on its own to break the bridge, but both together will be too heavy for it.
- Either train is heavy enough on its own to break the bridge.

Motion Detector, Conjunctive - Immoral, Knowledge

Please imagine the following scenario:

Suzy and Billy are working on a project that is very important for our nation's security. Usually, the boss sends out e-mails with instructions for the next day. If no other instructions are given, both Suzy and Billy come into the office at 9am in the morning.

One day, the boss sends out an e-mail to Suzy with instructions for the next day: "Be sure that you are here at exactly 9am. It is absolutely essential that you arrive at that time." The same day, he also sends out an e-mail to Billy with instructions for the next day: "Be sure that you do not come in at all tomorrow morning. It is absolutely essential that you do not appear at that time." Both receive the e-mail and learn about their instructions for the next day.

The next day, both Billy and Suzy arrive at 9am.

As it happens there was a motion detector installed in the room where they arrived. The motion detector was set up to be triggered if *more than one person* appeared in the room at the same time. So the motion detector went off.

Please rate how much you agree or disagree with the following statement:

"Billy caused the motion detector to go off."

Disagree

Agree

0 10 20 30 40 50 60 70 80 90 100

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Billy could have done differently."

Not at all relevant

Highly relevant

".... what Billy could have known."

Not at all relevant

Highly relevant

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy

Not at all relevant

Highly relevant

0 10 20 30 40 50 60 70 80 90 100

Please rate how much you agree or disagree with the following:

"Billy knew that he was not supposed to come in at 9am that day."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"Billy **should** have known whether or not he was not supposed to come in at 9am that day."

Strongly Disagree

Strongly Agree

Strongly Disagree 3 4 Strongly Agree 6 7

1 2 3 4 5 6 7

The motion detector goes off when it detected how many people?

- One or more.
- Two or more.

Who was not supposed to show up at 9am?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy and Suzy

Motion Detector, Disjunctive - Immoral, Knowledge

Please imagine the following scenario:

Suzy and Billy are working on a project that is very important for our nation's security. Usually, the boss sends out e-mails with instructions for the next day. If no other instructions are given, both Suzy and Billy come into the office at 9am in the morning.

One day, the boss sends out an e-mail to Suzy with instructions for the next day: "Be sure that you are here at exactly 9am. It is absolutely essential that you arrive at that time." The same day, he also sends out an e-mail to Billy with instructions for the next day: "Be sure that you do not come in at all tomorrow morning. It is absolutely essential that you do not appear at that time." Both receive the e-mail and learn about their instructions for the next day.

The next day, both Billy and Suzy arrive at 9am.

As it happens there was a motion detector installed in the room where they arrived. The motion detector was set up to be triggered if *at least one person* appeared in the room. So the motion detector went off.

Please rate how much you agree or disagree with the following statement:

"Billy caused the motion detector to go off."

Disagree

Agree

0 10 20 30 40 50 60 70 80 90 100

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently,

please tell us whether it would be relevant or irrelevant to focus on the following:

".... what **Billy** could have done differently."

Not at all relevant

Highly relevant

".... what **Billy** could have known."

Not at all relevant

Highly relevant

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy

Not at all relevant

Highly relevant

0 10 20 30 40 50 60 70 80 90 100

Please rate how much you agree or disagree with the following:

“**Billy knew that he was not supposed to come in at 9am that day.**”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

“**Billy should have known whether or not he was not supposed to come in at 9am that day.**”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

The motion detector goes off when it detected how many people?

- One or more.
- Two or more.

Who was not supposed to show up at 9am?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy and Suzy

Computer, Conjunctive - Immoral, Knowledge

Please imagine the following scenario:

Billy and Suzy work for a company that has a central computer. If two people log in to the central computer at exactly 9:27am, some work e-mails will be immediately deleted.

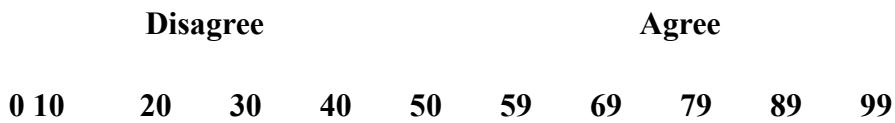
In order to make sure that two people are available to answer phone calls during designated calling hours, the company issued the following new official policy: Suzy is the only one permitted to log in to the central computer in the mornings, whereas Billy is the only one permitted to log in to the central computer in the afternoons. Billy is never permitted to log into the central computer in the mornings.

The secretary of the company informs Suzy and Billy about the new policy by sending them an e-mail. Both receive the e-mail and learn about the new policy.

This morning at exactly 9:27am, Billy and Suzy both log into the central computer at the same time. Immediately, some work e-mails are deleted.

Please rate how much you agree or disagree with the following statement:

"Billy caused the e-mails to be deleted."



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Billy could have done differently."

Not at all relevant

Highly relevant

".... what **Billy** could have known."

Not at all relevant

Highly relevant

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy

Not at all relevant

Highly relevant

0 10 20 30 40 50 60 70 80 90 100

Please rate how much you agree or disagree with the following:

"Billy knew that he was not supposed to log into the central computer in the mornings."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"Billy *should* have known whether or not he was not supposed to log into the central computer in the mornings"

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Who is not permitted to log in to the central computer in the mornings?

- Both Suzy and Billy
- Suzy
- Billy
- Neither Suzy nor Billy

Some work e-mails will be deleted if ...

- anyone logs into the central computer at 9:27am.
- two people log into the central computer at 9:27am.

Computer, Disjunctive - Immoral, Knowledge

Please imagine the following scenario:

Billy and Suzy work for a company that has a central computer. If anyone logs in to the central computer at exactly 9:27am, some work e-mails will be immediately deleted.

In order to make sure that two people are available to answer phone calls during designated calling hours, the company issued the following new official policy: Suzy is the only one permitted to log in to the central computer in the mornings, whereas Billy is the only one permitted to log in to the central computer in the afternoons. Billy is never permitted to log into the central computer in the mornings.

The secretary of the company informs Suzy and Billy about the new policy by sending them an e-mail. Both receive the e-mail and learn about the new policy.

This morning at exactly 9:27am, Billy and Suzy both log into the central computer at the same time. Immediately, some work e-mails are deleted.

Please rate how much you agree or disagree with the following statement:

"Billy caused the e-mails to be deleted."



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Billy could have done differently."

Not at all relevant

Highly relevant

".... what Billy could have known."

Not at all relevant

Highly relevant

Not at all relevant

Highly relevant

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy

Not at all relevant

Highly relevant

0 10 20 30 40 50 60 70 80 90 100

Please rate how much you agree or disagree with the following:

“Billy knew that he was not supposed to log into the central computer in the mornings.”

Strongly Disagree

Strongly Agree

1 2 3 4 5 6 7

“**Billy should have known whether or not he was not supposed to log into the central computer in the mornings”**

Strongly Disagree

Strongly Agree

1 2 3 4 5 6 7

Who is not permitted to log in to the central computer in the mornings?

- Both Suzy and Billy
- Suzy
- Billy
- Neither Suzy nor Billy

Some work e-mails will be deleted if ...

- anyone logs into the central computer at 9:27am.

- two people log into the central computer at 9:27am.

Desire/decide - Immoral, Knowledge

Please imagine the following scenario:

The vice-president of a company went to the chairman of the board and said, "We are thinking of starting a new program. It will help us increase profits, and it will also harm the environment." The chairman of the board answered, "I don't care at all about harming the environment. I just want to make as much profit as I can. Let's start the new program." They started the new program. Sure enough, the environment was harmed.

Please rate how much you agree or disagree with the following statements:

"Did the chairman have a desire to harm the environment?"

Disagree

Agree

1 2

3

4

5

6

7

"The chairman decided to harm the environment."

Disagree

Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the Chairman could have done differently."

Not at all relevant

Highly relevant

".... what the Chairman could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

“The chairman knew he was harming the environment.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

“The chairman should have known whether or not he was harming the environment.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Advocate/in favor of - Immoral, Knowledge

Please imagine the following scenario:

The management of a popular coffee franchise held a meeting to discuss a new procedure for preparing and serving coffee.

The assistant manager spoke forcefully in favor of adopting the new procedure, saying:

“I know that this new procedure will mean more work for the employees, which will make them very unhappy. But that is not what we should be concerned about. The new procedure will increase profits, and that should be our goal.”

Please rate how much you agree or disagree with the following statements:

“The assistant manager advocated making the employees do more work.”

Disagree

Agree

1 2

3

4

5

6

7

“The assistant manager was in favor of making the employees do more work.”

Disagree

Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the assistant manager could have done differently."

Not at all relevant

Highly relevant

".... what the assistant manager could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

“The assistant manager knew he was making the employees do more work.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

“The assistant manager should have known whether or not he was making the employees do more work.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Opposed to - Immoral, Knowledge

Please imagine the following scenario:

The CEO of a company was talking with his assistant. The assistant said: ‘We have conducted an in-depth study of the company’s proposed new policy. Our study shows that the new policy would decrease profits for the company and that it would also harm the environment.’

The CEO said: ‘Look, I don’t really care about what happens to the environment. What I care about is making sure that our profits don’t decrease. So, with that in mind, let’s definitely not implement that new policy.’

Please rate how much you agree or disagree with the following statements:

"The CEO was opposed to harming the environment."

Disagree

Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the CEO could have done differently."

Not at all relevant

Highly relevant

".... what the CEO could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The CEO knew that the policy would harm the environment."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The CEO should have known whether or not the policy would harm the environment."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Intended to/wanted to - Immoral, Knowledge

Please imagine the following scenario:

A man wants to trigger a mechanism that is linked to a bomb that will kill thousands of innocent tourists if it explodes. The man knows that this mechanism detonates the bomb. The only way to trigger the mechanism is to enter the correct code on a keypad, but the man does not know the code. There is only a one in ten million chance of his guessing the code. The man is fully aware that there is virtually no chance that he will successfully trigger the mechanism, but he desperately wants to save the tourists. So, without even looking at the keypad, he just randomly presses some keys.

Please rate how much you agree or disagree with the following statements:

"The man intended to detonate the bomb."

Disagree

Agree

1 2

3

4

5

6

7

"The man wanted to detonate the bomb."

Disagree

Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the man could have done differently."

Not at all relevant

Highly relevant

".... what the man could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

“The man knew he was detonating the bomb.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

“The man should have known whether or not he was detonating the bomb.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Ship Modal Proxy - Immoral, Knowledge

Please imagine the following scenario:

While sailing on the sea, a large storm came upon a captain and his ship. As the waves began to grow larger, the captain realized that his small vessel was too heavy and the ship would flood if he didn't make it lighter. The only way that the captain could keep the ship from capsizing was to cut the cargo loose which is weighing the ship down. The captain knows that the cargo contains his wife's expensive art collection because that is what he packed into the cargo. However, he also learned that a number of illegal passengers have hidden in the cargo boxes before the ship left the harbor.

Fully realizing the cargo contains passengers, the captain cut the cargo loose and it fell into the sea. While the cargo containing the illegal passengers sank to the bottom of the sea, the captain was able to survive the storm and returned home safely.

Please rate how much you agree or disagree with the following statement:

“Given the circumstances, the captain had to cut the cargo loose and let it fall into the sea.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

“.... what the captain could have done differently.”

Not at all relevant
Not at all relevant

Highly relevant
Highly relevant

".... what the captain could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The captain knew that a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The captain *should* have known whether or not a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Pen Modal Proxy - Immoral, Knowledge

Please imagine the following scenario:

The receptionist in the philosophy department keeps her desk stocked with pens. The administrative assistants are allowed to take pens, but faculty members are supposed to buy their own. The administrative assistants typically do take the pens. Unfortunately, so do the faculty members. The receptionist has repeatedly e-mailed them reminders that only administrators are allowed to take the pens.

On Monday, a brand new professor, Professor Smith, starts her new job in the philosophy department. Even though she was recently appointed, she has received the emails that are repeatedly sent out by the receptionist, and knows that only administrators are allowed to take pens. Early that morning, one of the administrative assistants encounters Professor Smith walking past the receptionist's desk. Both take pens. Later that day, the receptionist needs to take an important message...but she has a problem. There are no pens left on her desk.

Please rate how much you agree or disagree with the following statement:

"Given the actions of the professor, the problem had to occur."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Please rate how much you agree or disagree with the following statement:

“Given the actions of the administrative assistant, the problem had to occur.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

“.... what Prof. Smith could have done differently.”

Not at all relevant

Highly relevant

“.... what Prof. Smith could have known.”

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

“Prof. Smith knew that only administrative assistants are allowed to take pens.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

“Prof. Smith *should* have known whether or not only administrative assistants are allowed to take pens.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Bullseye Modal Proxy - Immoral, Knowledge

Please imagine the following scenario:

Jake takes part in a rifle contest. His aunt accompanies him to the rifle contest and watches him from the sideline. Jake desperately wants to have more money. He knows that he will inherit a lot of money when his aunt dies. He also knows that the rifle bullets that are used in this contest have so much speed that they usually pierce through the target. One moment, he sees his aunt standing right behind the target. The chest area where the heart sits is at the level of the bull's eye. Jake raises his rifle, gets the bull's-eye and her in the sights, and presses the trigger. But Jake is not very good at using his rifle. His hand slips on the barrel of the gun, and the shot goes wild. Nonetheless, the bullet lands directly on the bull's-eye, goes through the target and hits his aunt directly in the heart. She dies instantly.

Please rate how much you agree or disagree with the following statement:

"Jake hit his aunt through sheer luck."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Jake could have done differently."

Not at all relevant

Highly relevant

".... what Jake could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

“Jake knew that the rifle bullets would pierce through the target and hit his aunt.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

“Jake *should* have known whether or not the rifle bullets would pierce through the target and hit his aunt”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Gizmos - Immoral Knowledge

Please imagine the following scenario:

The convention in the Gizmo industry is for Gizmos to be a light color. Specifically, the convention is to make Gizmos that are colored lighter than blue. The vice-president of a company in the Gizmo industry went to the chairman of the board and said, “We are thinking of starting a new program. It will help us increase profits, but it will result in our Gizmos being colored black. The convention is to make Gizmos colored lighter than blue, so we would be violating the convention.” The chairman of the board answered, “I don’t care at all about the color of the Gizmos. I just want to make as much profit as I can. Let’s start the new program.” They started the program. As it happened, the Gizmos were black, colored darker than blue.

Please rate how much you agree or disagree with the following statement:

“How appropriate is it to say the chairman of the board intentionally made Gizmos colored darker than blue?”

Not at All Appropriate

Very Appropriate

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

“.... what the chairman could have done differently.”

Not at all relevant
Not at all relevant

Highly relevant
Highly relevant

".... what the chairman could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The chairman of the board knew the color conventions of Gizmos."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The chairman of the board *should* have known the color conventions of Gizmos"

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Scrubs - Immoral, Knowledge

Please imagine the following scenario:

There is a convention in medicine that medical students wear lighter-colored scrubs than doctors. Specifically, the convention is for medical students to wear light blue scrubs and doctors to wear dark blue scrubs. An employee went to the Chief of Medicine and said, "We are thinking of buying our scrubs from a new medical supply company. Using this new company will save the hospital money, but we will only have one choice for color. Specifically, the medical students' scrubs will be dark blue, much darker than they are currently. The convention is for med students to wear light blue, so we would be violating the convention." The Chief of Medicine answered, "I don't care at all the color of medical students' scrubs. I just want to save money. Let's go with the new supply company." They bought from the new supply company. As a result, medical students' scrubs were dark blue.

Please rate how much you agree or disagree with the following statement:

"How appropriate is it to say the Chief of Medicine intentionally made Scrubs colored darker than blue?"

Not at All Appropriate	Very Appropriate
Not at All Appropriate	Very Appropriate
1 2	3
1 2	3
4	5
4	5
6	6
7	7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the Chief of Medicine could have done differently."

Not at all relevant

Highly relevant

".... what the Chief of Medicine could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The Chief of Medicine knew the color conventions of Scrubs."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The Chief of Medicine *should* have known the color conventions of Scrubs"

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Truck Trailers - Immoral, Knowledge

Please imagine the following scenario:

The convention in the trucking industry is to have truck trailers that are colored lighter than blue. An employee at a trucking company went to the boss and said, "We are thinking of changing the paint we use for the truck trailers. It will help cut costs, but it will result in our trailers being black. The convention is to have trailers colored lighter than blue,

so we would be violating the convention." The boss answered, "I don't care at all about the color of the trailers. I just want to cut costs as much as I can. Let's start the new program." They started the program. As it happened, the trailers were black, colored darker than blue.

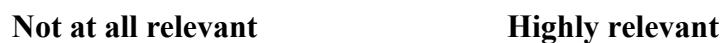
Please rate how much you agree or disagree with the following statement:

"How appropriate is it to say the boss intentionally made truck trailers colored darker than blue?"



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the boss could have done differently."



".... what the boss could have known."



Please rate how much you agree or disagree with the following:

"The boss knew the color conventions of truck trailers."



"The boss *should* have known the color conventions of truck trailers"

Strongly Disagree		Strongly Agree
Strongly Disagree		Strongly Agree
1 2	3	4
1 2	3	4
	5	6
	5	6
		7
		7

Ship - Immoral, No Knowledge

Please imagine the following scenario:

While sailing on the sea, a large storm came upon a captain and his ship. As the waves began to grow larger, the captain realized that his small vessel was too heavy and the ship would flood if he didn't make it lighter. The only way that the captain could keep the ship from capsizing was to cut the cargo loose which is weighing the ship down. The captain thinks that the cargo contains his wife's expensive art collection because that is what he packed into the cargo. However, completely unbeknownst to the captain, a number of illegal passengers have hidden in the cargo boxes before the ship left the harbor.

Without realizing the cargo contains passengers, the captain cut the cargo loose and it fell into the sea. While the cargo containing the illegal passengers sank to the bottom of the sea, the captain was able to survive the storm and returned home safely.

Please rate how much you agree or disagree with the following statement:

"The ship captain was forced to cut the cargo loose and let it fall into the sea."

Strongly Disagree		Strongly Agree
1 2	3	4
	5	6

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the captain could have done differently."

Not at all relevant	Highly relevant
----------------------------	------------------------

".... what the captain could have known."

Not at all relevant	Highly relevant
----------------------------	------------------------

Please rate how much you agree or disagree with the following:

"The captain knew that a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The captain *should* have known whether or not a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Pen - Immoral, No Knowledge

Please imagine the following scenario:

The receptionist in the philosophy department keeps her desk stocked with pens. The administrative assistants are allowed to take pens, but faculty members are supposed to buy their own. The administrative assistants typically do take the pens. Unfortunately, so do the faculty members. The receptionist has repeatedly e-mailed them reminders that only administrators are allowed to take the pens.

On Monday, a brand new professor, Professor Smith, starts her new job in the philosophy department. As a result of her recent appointment, she has not received any of the emails that are repeatedly sent out by the receptionist, and does not know that only administrators are allowed to take pens. On Monday morning, one of the administrative assistants encounters Professor Smith walking past the receptionist's desk. Both take pens. Later that day, the receptionist needs to take an important message...but she has a problem. There are no pens left on her desk.

Please rate how much you agree or disagree with the following statement:

"Prof. Smith caused the problem."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Prof. Smith could have done differently."

Not at all relevant

Highly relevant

".... what Prof. Smith could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"Prof. Smith knew that only administrative assistants are allowed to take pens."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"Prof. Smith *should* have known whether or not only administrative assistants are allowed to take pens."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Homeless - immoral, no knowledge

Please imagine the following scenario:

Dr. Bennett is an emergency-room physician. An unconscious homeless man is brought in, and his identity is unknown. Despite his homelessness, the man is wearing a tidy suit. The man's organ systems have shut down and a nurse has hooked him up to a respirator. Without the respirator he would die. With the respirator and some attention from Dr. Bennett he would live for a week or two, but he would never regain consciousness and could not live longer than two weeks.

In the past, when treating a homeless person, Dr. Bennett has often been overheard saying "This bum deserves to die. He shouldn't sit here soaking up my valuable time and resources. The best thing to do would be to disconnect him from the machine". However, in this case, Dr. Bennett does not realize that the particular man in front of him is a homeless person, and no one mentions this to him. Dr. Bennett just thinks to himself: "This poor man deserves to die with dignity. The best thing to do would be to disconnect this man from the machine." For just that reason, Dr. Bennett disconnects the homeless man from the respirator, and the man quickly dies.

Please indicate your tendency concerning the following question:

**"Is it more appropriate to say that Dr. Bennett ended the homeless man's life,
or that he allowed it to end?"**

Allowed to end				Ended	
Allowed to end				Ended	
1 2	3	4	5	6	7
1 2	3	4	5	6	7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Dr. Bennett could have done differently."

Not at all relevant

Highly relevant

".... what Dr. Bennett could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"Dr. Bennett knew that the man in front of him was a homeless person."

Strongly Disagree

Strongly Agree

1 2 3 4 5 6 7

"Dr. Bennett *should* have known whether or not the man in front of him was a homeless person."

Strongly Disagree

Strongly Agree

1 2 3 4 5 6 7

vice-president - immoral, no knowledge

Please imagine the following scenario:

The vice-president of a company went to the chairman of the board and said, "We are thinking of starting a new program. It will help us increase profits." The chairman of the board answered, "I just

want to make as much profit as I can. Let's start the new program." However, completely unbeknownst to everyone in the company, the program actually harms the environment. They started the new program. Unexpectedly, the environment was harmed.

Please rate how much you agree or disagree with the following statement:

"The chairman of the board intentionally harmed the environment."

Strongly Disagree	Strongly Agree				
1 2	3	4	5	6	7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the chairman could have done differently."

Not at all relevant	Highly relevant
---------------------	-----------------

".... what the chairman could have known."

Not at all relevant	Highly relevant
---------------------	-----------------

Please rate how much you agree or disagree with the following:

"The chairman knew that the program harms the environment."

Strongly Disagree	Strongly Agree				
1 2	3	4	5	6	7

"The chairman **should** have known whether or not the program harms the environment."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

happiness - morally bad, no knowledge

Please imagine the following scenario:

After going to nursing school for several years, Sarah got a job at the children's hospital and sees many different children each day. This is the job she has always wanted. Almost every single day Sarah feels good and generally experiences a lot of pleasant emotions. In fact, it is very rare that she would ever feel negative emotions like sadness or loneliness. When Sarah thinks about her life, she always comes to the same conclusion: she feels highly satisfied with the way she lives.

The reason Sarah feels this way is that she tries to help the sick children by giving them vitamins that taste like gummy bears. Sarah doesn't really know how many children have been helped by her, but she likes to think about it when she falls asleep at night. While no one at the hospital including Sarah has any idea, the gummy vitamins Sarah has been giving the children actually contain pesticides. Many children have been harmed, though it is not clear how many.

Please rate how much you agree or disagree with the following statement:

"Sarah is happy."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Sarah could have done differently."

Not at all relevant

Highly relevant

".... what Sarah could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"Sarah knew that the gummy vitamins contain pesticides."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"Sarah *should* have known whether or not the gummy vitamins contain pesticides."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Force1 (Ship) ACTIVE - immoral, no knowledge

Please imagine the following scenario:

While sailing on the sea, a large storm came upon a captain and his ship. As the waves began to grow larger, the captain realized that his small vessel was too heavy and the ship would flood if he didn't make it lighter.

The only way that the captain could keep the ship from capsizing was to throw cargo overboard which is weighing the ship down. The captain and his sailors know that the cargo contains the captain's wife's expensive art collection because that is what they packed into the cargo. However, completely unbeknownst to them, a number of illegal passengers hid in the cargo boxes before the ship left the harbor.

Thinking quickly, the captain ordered one of his sailors to cut the cargo loose, without realizing the cargo contains passengers. While the cargo containing the illegal passengers sank to the bottom of the sea, the captain and his ship survived the storm and returned home safely.

Please respond to the following statement:

"Did the captain force the sailor to throw the cargo with the passengers overboard?"

Not at all

Absolutely

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently,

please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the captain could have done differently."

Not at all relevant

Highly relevant

".... what the captain could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The captain knew that a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The captain *should* have known whether or not a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Force1 (Ship) PASSIVE - immoral, no knowledge

Please imagine the following scenario:

While sailing on the sea, a large storm came upon a captain and his ship. As the waves began to grow larger, the captain realized that his small vessel was too heavy and the ship would flood if he didn't make it lighter.

The only things on the captain's small boat were a single sailor and some small cargo that he was transporting. The captain and the sailor knew that the cargo contained his wife's expensive art collection because that is what they packed into the cargo. However, completely unbeknownst to them, a number of illegal passengers hid in the cargo boxes before the ship left the harbor. The captain soon realized he had to throw something overboard to keep the ship from capsizing. Thinking quickly, the captain ordered the sailor to cut the cargo loose, without realizing the cargo contains passengers. While the cargo containing the illegal passengers sank to the bottom of the sea, the captain and his ship survived the storm and returned home safely.

Please respond to the following statement:

"Was the sailor forced to throw the cargo with the passengers overboard?"

Not at all

Absolutely

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the captain could have done differently."

Not at all relevant

Highly relevant

".... what the captain could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The captain knew that a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The captain should have known whether or not a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Force2 (Hospital) ACTIVE - Immoral, No Knowledge

Please imagine the following scenario:

At a certain hospital, there were very specific rules about the procedures doctors had to follow. The rules said that doctors didn't necessarily have to take the advice of consulting physicians but that they did have to follow the orders of the chief of surgery. One day, the chief of surgery ordered a doctor to prescribe the drug Accuphine for a patient. The doctor had always disliked this patient and actually didn't want her to be cured. Both the doctor and the chief thought that giving this patient Accuphine would result in an immediate recovery. However, completely unbeknownst to the doctor and the chief, giving this patient Accuphine was going to result in the patient's immediate death. The doctor went ahead and prescribed Accuphine. The patient died shortly thereafter.

Please respond to the following statement:

"Did the chief of surgery force the doctor to prescribe Accuphine?"

Not at all

Absolutely

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the doctor could have done differently."

Not at all relevant

Highly relevant

".... what the doctor could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The doctor knew that giving the patient Accuphine was going to result in the patient's death."

Strongly Disagree

Strongly Agree

Strongly Disagree 3 4 Strongly Agree 7

1 2 3 4 5 6 7

"The doctor *should* have known whether or not giving the patient Accuphine was going to result in the patient's death."

Strongly Disagree Strongly Agree

1 2 3 4 5 6 7

Force2 (Hospital) PASSIVE - Immoral, No Knowledge

Please imagine the following scenario:

At a certain hospital, there were very specific rules about the procedures doctors had to follow. The rules said that doctors didn't necessarily have to take the advice of consulting physicians but that they did have to follow the orders of the chief of surgery. One day, the chief of surgery ordered a doctor to prescribe the drug Accuphine for a patient. The doctor had always disliked this patient and actually didn't want her to be cured. Both the doctor and the chief thought that giving this patient Accuphine would result in an immediate recovery. However, completely unbeknownst to the doctor and the chief, giving this patient Accuphine was going to result in the patient's immediate death. The doctor went ahead and prescribed Accuphine. The patient died shortly thereafter.

Please respond to the following statement:

"Was the doctor forced to prescribe Accuphine?"

Not at all Absolutely

1 2 3 4 5 6 7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the doctor could have done differently."

Not at all relevant

Highly relevant

".... what the doctor could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The doctor knew that giving the patient Accuphine was going to result in the patient's death."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The doctor *should* have known whether or not giving the patient Accuphine was going to result in the patient's death?"

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Battery, Conjunctive - Immoral, No Knowledge

Please imagine the following scenario:

Billy and Suzy inherited an unusual type of hybrid car that has two special car batteries called Bartlett batteries. The car won't start unless it has two Bartlett batteries. Having one battery isn't enough to start the car. When they got the car, both Bartlett batteries were missing.

One day, Billy and Suzy are both out of the house. Billy is visiting his friend's house, and notices that his friend has a Bartlett battery as well as a Bartlett memory card. Billy asks his friend to sell the Bartlett battery to him. His friend, who is in the basement when Billy asks for the battery, has heard Billy's question. However, because of the distance, his friend misunderstood the question to be about the Bartlett memory card. He replies to Billy that he is willing to give it away.

Not realizing that his friend has agreed to give away the Bartlett memory card, but not the battery, Billy takes the Bartlett battery.

Meanwhile, on the other side of town, Suzy walks into an automotive parts shop and happens to notice that they have a single Bartlett battery in stock. Suzy decides to buy the Bartlett battery from the shop. When Billy and Suzy get home, they installed the two Bartlett batteries.

Since the car now had both Bartlett batteries, they were able to start the car.

Please rate how much you agree or disagree with the following statement:

"They were able to start the car because of Billy."



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

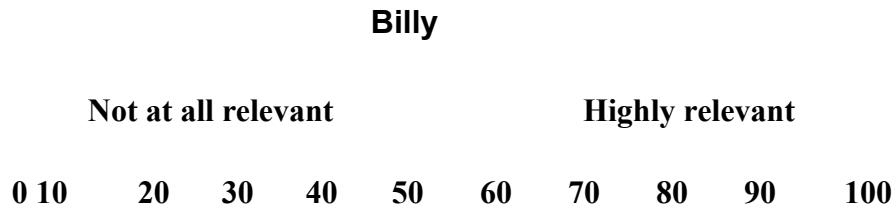
".... what Billy could have done differently."

Not at all relevant	Highly relevant
---------------------	-----------------

".... what Billy could have known."

Not at all relevant	Highly relevant
---------------------	-----------------

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:



Please rate how much you agree or disagree with the following:

"Billy knew that he was not allowed to take the Bartlett Battery."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"Billy *should* have known whether or not he was allowed to take the Bartlett Battery."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Who takes a Bartlett Battery despite not being allowed to?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy nor Suzy

How many Bartlett Batteries does it take to start the car?

- One.
- Two.

Battery, Disjunctive - Immoral, No Knowledge

Please imagine the following scenario:

Billy and Suzy inherited an unusual type of hybrid car that has two special car batteries called Bartlett batteries. The car won't start unless it has at least one Bartlett battery. Having a second Bartlett battery isn't necessary to start the car. When they got the car, both Bartlett batteries were missing.

One day, Billy and Suzy are both out of the house. Billy is visiting his friend's house, and notices that his friend has a Bartlett battery as well as a Bartlett memory card. Billy asks his friend to sell the Bartlett battery to him. His friend, who is in the basement when Billy asks for the battery, has heard Billy's question. However, because of the distance, his friend misunderstood the question to be about the Bartlett memory card. He replies to Billy that he is willing to give it away.

Not realizing that his friend has agreed to give away the Bartlett memory card, but not the battery, Billy takes the Bartlett battery.

Meanwhile, on the other side of town, Suzy walks into an automotive parts shop and happens to notice that they have decided to stop selling Bartlett batteries and are giving away the rest of their stock. There is one Bartlett battery left, which Suzy decides to take. When Billy and Suzy get home, they installed the two Bartlett batteries.

Since all the car needed was at least one Bartlett battery, they were able to start the car.

Please rate how much you agree or disagree with the following statement:

"They were able to start the car because of Billy."



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Billy could have done differently."

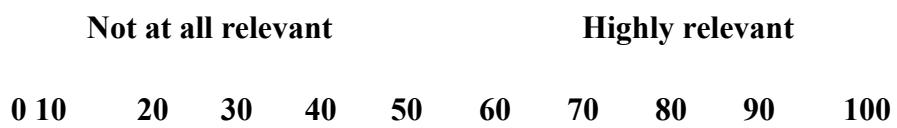


".... what Billy could have known."



Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy



Please rate how much you agree or disagree with the following:

"**Billy knew that he was not allowed to take the Bartlett Battery.**"

Strongly Disagree	Strongly Agree
Strongly Disagree	Strongly Agree
1 2	3
4	5
6	7

“Billy *should* have known whether or not he was allowed to take the Bartlett Battery.”

Strongly Disagree	Strongly Agree
1 2	3
4	5
6	7

Who takes a Bartlett Battery despite not being allowed to?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy nor Suzy

How many Bartlett Batteries does it take to start the car?

- One.
- Two.

Bridge, Conjunctive - Immoral, No Knowledge

Please imagine the following scenario:

Billy and Suzy are freight train conductors. On this day, they are both driving on the same railway route. However, Billy usually does not drive on this route, but was spontaneously deployed in the morning to drive this route to transport freight. On this day, they happen to approach an old two-way rail bridge from opposite directions at the same time. There are signals on either side of the bridge.

The signal system on this route uses a different colour scheme than usual. A red light means “Go!”, and a green light means “Stop!”. However, Billy usually does not drive on this route, and no one had told him about the special colour system on this route.

Billy’s signal is green, so he thinks he is supposed to drive across immediately, but unbeknownst to him, he is actually supposed to stop. Suzy’s signal is red, so she knows she is supposed to drive across immediately.

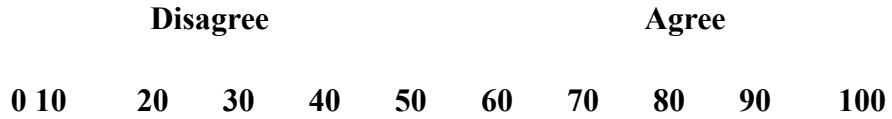
Neither of them realizes that the bridge is on the verge of collapse. If they both drive their trains onto the bridge at the same time, it will collapse. Neither train is heavy enough on its own to break the bridge, but both together will be too heavy for it.

Not realizing that he is supposed to stop, Billy drives his train onto the bridge immediately at the

same time that Suzy follows her signal and drives her train onto the bridge. Both trains move onto the bridge at the same time, and at that moment the bridge collapses.

Please rate how much you agree or disagree with the following statement:

"Billy caused the bridge to collapse."



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

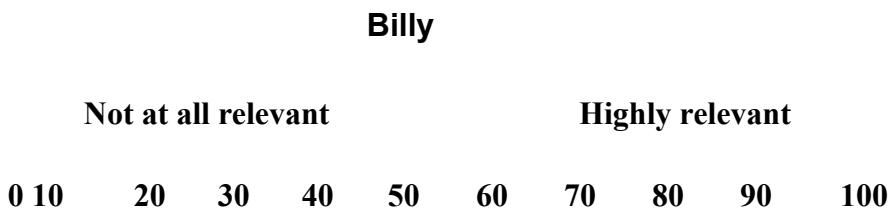
".... what Billy could have done differently."



".... what Billy could have known."



Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:



Please rate how much you agree or disagree with the following:

"Billy knew that his signal meant that he was supposed to stop."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"Billy *should* have known whether or not his signal meant that he was supposed to stop."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Who was supposed to stop and wait according to their signal?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy nor Suzy

Under which condition will the bridge collapse?

- Neither train is heavy enough on its own to break the bridge, but both together will be too heavy for it.
- Either train is heavy enough on its own to break the bridge.

Bridge, Disjunctive - Immoral, No Knowledge

Please imagine the following scenario:

Billy and Suzy are freight train conductors. On this day, they are both driving on the same railway route. However, Billy usually does not drive on this route, but was spontaneously deployed in the morning to drive this route to transport freight. On this day, they happen to approach an old two-way rail bridge from opposite directions at the same time. There are signals on either side of the bridge.

The signal system on this route uses a different colour scheme than usual. A red light means "Go!", and a green light means "Stop!". However, Billy usually does not drive on this route, and no one had told him about the special colour system on this route.

Billy's signal is green, so he thinks he is supposed to drive across immediately, but unbeknownst to him, he is actually supposed to stop. Suzy's signal is red, so she knows she is supposed to drive across immediately.

Neither of them realizes that the bridge is on the verge of collapse. If either of them drives their train onto the bridge, it will collapse. Either train is heavy enough on its own to break the bridge.

Not realizing that he is supposed to stop, Billy drives his train onto the bridge immediately at the same time that Suzy follows her signal and drives her train onto the bridge. Both trains move onto the bridge at the same time, and at that moment the bridge collapses.

Please rate how much you agree or disagree with the following statement:

"Billy caused the bridge to collapse."



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

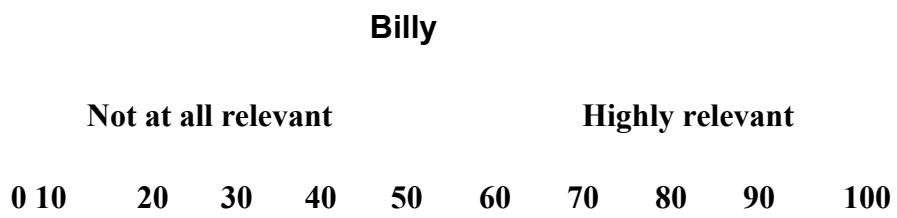
".... what Billy could have done differently."



".... what Billy could have known."

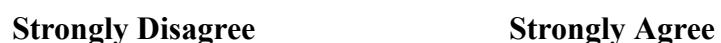


Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:



Please rate how much you agree or disagree with the following:

"Billy knew that his signal meant that he was supposed to stop."



Strongly Disagree 3 4 **Strongly Agree** 7

1 2 3 4 5 6 7

"Billy *should* have known whether or not his signal meant that he was supposed to stop."

Strongly Disagree **Strongly Agree**

1 2 3 4 5 6 7

Who was supposed to stop and wait according to their signal?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy nor Suzy

Under which condition will the bridge collapse?

- Neither train is heavy enough on its own to break the bridge, but both together will be too heavy for it.
- Either train is heavy enough on its own to break the bridge.

Motion Detector, Conjunctive - Immoral, No Knowledge

Please imagine the following scenario:

Suzy and Billy are working on a project that is very important for our nation's security. Usually, the boss sends out e-mails with instructions for the next day. If no other instructions are given, both Suzy and Billy come into the office at 9am in the morning.

One day, the boss sends out an e-mail to Suzy with instructions for the next day: "Be sure that you are here at exactly 9am. It is absolutely essential that you arrive at that time." The same day, he also sends out an e-mail to Billy with instructions for the next day: "Be sure that you do not come in at all tomorrow morning. It is absolutely essential that you do not appear at that time." Suzy receives her e-mail and learns about her instructions for the next day. However, the e-mail to Billy lands in his spam folder and is automatically deleted. As a result, Billy does not learn about his instructions for the next day.

The next day, both Billy and Suzy arrive at 9am.

As it happens there was a motion detector installed in the room where they arrived. The motion detector was set up to be triggered if *more than one person* appeared in the room at the same time. So the motion detector went off.

Please rate how much you agree or disagree with the following statement:

"Billy caused the motion detector to go off."



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

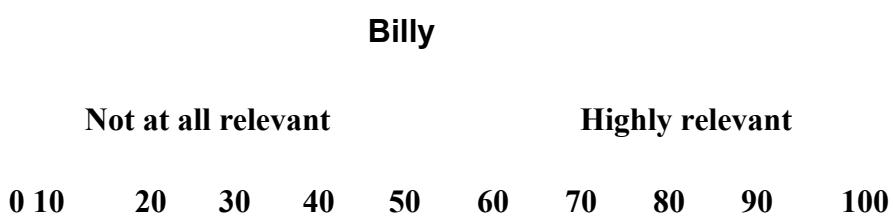
".... what Billy could have done differently."



".... what Billy could have known."



Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:



Please rate how much you agree or disagree with the following:

"Billy knew that he was not supposed to come in at 9am that day."



Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

“Billy *should* have known whether or not he was not supposed to come in at 9am that day.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

The motion detector goes off when it detected how many people?

- One or more.
- Two or more.

Who was not supposed to show up at 9am?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy and Suzy

Motion Detector, Disjunctive - Immoral, No Knowledge

Please imagine the following scenario:

Suzy and Billy are working on a project that is very important for our nation's security. Usually, the boss sends out e-mails with instructions for the next day. If no other instructions are given, both Suzy and Billy come into the office at 9am in the morning.

One day, the boss sends out an e-mail to Suzy with instructions for the next day: “Be sure that you are here at exactly 9am. It is absolutely essential that you arrive at that time.” The same day, he also sends out an e-mail to Billy with instructions for the next day: “Be sure that you do not come in at all tomorrow morning. It is absolutely essential that you do not appear at that time.” Suzy receives her e-mail and learns about her instructions for the next day. However, the e-mail to Billy lands in his spam folder and is automatically deleted. As a result, Billy does not learn about his instructions for the next day

The next day, both Billy and Suzy arrive at 9am.

As it happens there was a motion detector installed in the room where they arrived. The motion detector was set up to be triggered if *at least one person* appeared in the room. So the motion detector went off.

Please rate how much you agree or disagree with the following statement:

"Billy caused the motion detector to go off."



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

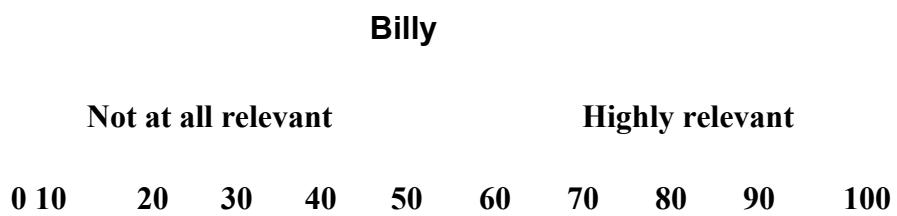
".... what Billy could have done differently."



".... what Billy could have known."

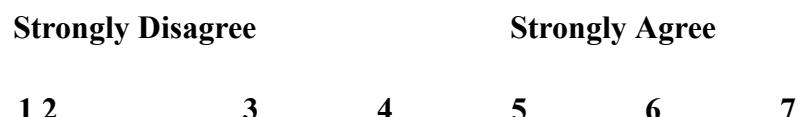


Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:



Please rate how much you agree or disagree with the following:

"Billy knew that he was not supposed to come in at 9am that day."



Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"Billy should have known whether or not he was not supposed to come in at 9am that day."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

The motion detector goes off when it detected how many people?

- One or more.
- Two or more.

Who was not supposed to show up at 9am?

- Both Billy and Suzy
- Billy
- Suzy
- Neither Billy and Suzy

Computer, Conjunctive - Immoral, No Knowledge

Please imagine the following scenario:

Billy and Suzy work for a company that has a central computer. If two people log in to the central computer at exactly 9:27am, some work e-mails will be immediately deleted.

In order to make sure that two people are available to answer phone calls during designated calling hours, the company issued the following new official policy: Suzy is the only one permitted to log in to the central computer in the mornings, whereas Billy is the only one permitted to log in to the central computer in the afternoons. Billy is never permitted to log into the central computer in the mornings.

Suzy receives the e-mail and learns about the new policy. However, the e-mail to Billy lands in his spam folder and is automatically deleted. As a result, Billy does not learn about the new policy.

This morning at exactly 9:27am, Billy and Suzy both log into the central computer at the same time. Immediately, some work e-mails are deleted.

Please rate how much you agree or disagree with the following statement:

"Billy caused the e-mails to be deleted."

Strongly Disagree

Strongly Agree

0 10 20 30 40 50 60 70 80 90 100

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what **Billy could have done differently.**"

Not at all relevant

Highly relevant

".... what **Billy could have known.**"

Not at all relevant

Highly relevant

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy

Not at all relevant

Highly relevant

0 10 20 30 40 50 60 70 80 90 100

Please rate how much you agree or disagree with the following:

"Billy knew that he was not supposed to log into the central computer in the mornings."

Strongly Disagree

Strongly Agree

1 2 3 4 5 6 7

"Billy should have known whether or not he was not supposed to log into the central computer in the mornings"

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Who is not permitted to log in to the central computer in the mornings?

- Both Suzy and Billy
- Suzy
- Billy
- Neither Suzy nor Billy

Some work e-mails will be deleted if ...

- anyone logs into the central computer at 9:27am.
- two people log into the central computer at 9:27am.

Computer, Disjunctive - Immoral, No Knowledge

Please imagine the following scenario:

Billy and Suzy work for a company that has a central computer. If anyone logs in to the central computer at exactly 9:27am, some work e-mails will be immediately deleted.

In order to make sure that two people are available to answer phone calls during designated calling hours, the company issued the following new official policy: Suzy is the only one permitted to log in to the central computer in the mornings, whereas Billy is the only one permitted to log in to the central computer in the afternoons. Billy is never permitted to log into the central computer in the mornings.

Suzy receives the e-mail and learns about the new policy. However, the e-mail to Billy lands in his spam folder and is automatically deleted. As a result, Billy does not learn about the new policy.

This morning at exactly 9:27am, Billy and Suzy both log into the central computer at the same time. Immediately, some work e-mails are deleted.

Please rate how much you agree or disagree with the following statement:

"Billy caused the e-mails to be deleted."

Disagree

Agree

0 10 20 30 40 50 60 70 80 90 100

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Billy could have done differently."

Not at all relevant

Highly relevant

".... what Billy could have known."

Not at all relevant

Highly relevant

Now suppose that some people are discussing this story and wondering how things could have been different. In thinking about who could have acted differently, please tell us how relevant or irrelevant it would be to focus on the following:

Billy

Not at all relevant

Highly relevant

0 10 20 30 40 50 60 70 80 90 100

Please rate how much you agree or disagree with the following:

"Billy knew that he was not supposed to log into the central computer in the mornings."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"**Billy should have known whether or not he was not supposed to log into the central computer in the mornings"**

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Some work e-mails will be deleted if ...

- anyone logs into the central computer at 9:27am.
- two people log into the central computer at 9:27am.

Who is not permitted to log in to the central computer in the mornings?

- Both Suzy and Billy
- Suzy
- Billy
- Neither Suzy nor Billy

Desire/decide - Immoral, No Knowledge

Please imagine the following scenario:

The vice-president of a company went to the chairman of the board and said, "We are thinking of starting a new program. It will help us increase profits." The chairman of the board answered, "I just want to make as much profit as I can. Let's start the new program." However, completely unbeknownst to everyone in the company, the program harms the environment. They started the new program. Unexpectedly, the environment was harmed.

Please rate how much you agree or disagree with the following statements:

"Did the chairman have a desire to harm the environment?"

Disagree

Agree

1 2

3

4

5

6

7

"The chairman decided to harm the environment."

Disagree

Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently,

please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the chairman could have done differently."

Not at all relevant

Highly relevant

".... what the chairman could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

“The chairman knew he was harming the environment.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

“The chairman should have known whether or not he was harming the environment.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Advocate/in favor of - Immoral, No Knowledge

Please imagine the following scenario:

The management of a popular coffee franchise held a meeting to discuss a new procedure for preparing and serving coffee.

The assistant manager spoke forcefully in favor of adopting the new procedure, saying:

“The new procedure will increase profits, and that should be our goal.”

However, completely unbeknownst to everyone in the franchise, the new procedure means more work for the employees, which will make them very unhappy.

Please rate how much you agree or disagree with the following statements:

"The assistant manager advocated making the employees do more work."

Disagree

Agree

1 2

3

4

5

6

7

"The assistant manager was in favor of making the employees do more work."

Disagree

Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what assistant manager could have done differently."

Not at all relevant

Highly relevant

".... what the assistant manager could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The assistant manager knew he was making the employees do more work."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The assistant manager should have known whether or not he was making the employees do more work."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Opposed to - Moral, No Knowledge

Please imagine the following scenario:

The CEO of a company was talking with his assistant. The assistant said: 'We have conducted an in-depth study of the company's proposed new policy. Our study shows that the new policy would decrease profits for the company.'

The CEO said: 'What I care about is making sure that our profits don't decrease. So, with that in mind, let's definitely not implement that new policy.' However, unbeknownst to everyone in the company, the new policy helps the environment.

Please rate how much you agree or disagree with the following statements:

"The CEO was opposed to helping the environment."

Disagree

Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the CEO could have done differently."

Not at all relevant

Highly relevant

".... what the CEO could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

“The CEO knew that the policy would harm the environment.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

“The CEO should have known whether or not the policy would harm the environment.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Intended to/wanted to - Immoral, No Knowledge

Please imagine the following scenario:

A man wants to trigger a mechanism that is linked to a bomb that will kill thousands of innocent tourists if it explodes. The man thinks that this mechanism defuses the bomb. The only way to trigger the mechanism is to enter the correct code on a keypad, but the man does not know the code. There is only a one in ten million chance of his guessing the code.

However, unbeknownst to the man, the mechanism - when successfully triggered - does not defuse the bomb. Rather, the mechanism detonates the bomb.

The man is fully aware that there is virtually no chance that he will successfully trigger this mechanism, but he desperately wants to save the tourists. So, without even looking at the keypad, he just randomly presses some keys.

Please rate how much you agree or disagree with the following statements:

“The man intended to detonate the bomb.”

Disagree

Agree

1 2

3

4

5

6

7

“The man wanted to detonate the bomb.”

	Disagree		Agree
1 2	Disagree	3	4
5	Agree	6	7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the man could have done differently."

Not at all relevant	Highly relevant
---------------------	-----------------

".... what the man could have known."

Not at all relevant	Highly relevant
---------------------	-----------------

Please rate how much you agree or disagree with the following:

“The man knew he was detonating the bomb.”

Strongly Disagree	Strongly Agree				
1 2	3	4	5	6	7

“The man should have known whether or not he was detonating the bomb.”

Strongly Disagree	Strongly Agree				
1 2	3	4	5	6	7

Ship Modal Proxy - Immoral, No Knowledge

Please imagine the following scenario:

While sailing on the sea, a large storm came upon a captain and his ship. As the waves began to grow larger, the captain realized that his small vessel was too heavy and the ship would flood if he didn't make it lighter. The only way that the captain could keep the ship from capsizing was to cut the cargo loose which is weighing the ship down. The captain thinks that the cargo contains his wife's expensive art collection because that is what he packed into the cargo. However, completely unbeknownst to the captain, a number of illegal passengers have hidden in the cargo boxes before the ship left the harbor.

Without realizing the cargo contains passengers, the captain cut the cargo loose and it fell into the sea. While the cargo containing the illegal passengers sank to the bottom of the sea, the captain was able to survive the storm and returned home safely.

Please rate how much you agree or disagree with the following statement:

"Given the circumstances, the captain had to cut the cargo loose and let it fall into the sea."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the captain could have done differently."

Not at all relevant

Highly relevant

".... what the captain could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The captain knew that a number of illegal passengers were hiding in the cargo boxes."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The captain *should* have known whether or not a number of illegal passengers were hiding in the cargo boxes."



Pen Modal Proxy - Immoral, No Knowledge

Please imagine the following scenario:

The receptionist in the philosophy department keeps her desk stocked with pens. The administrative assistants are allowed to take pens, but faculty members are supposed to buy their own. The administrative assistants typically do take the pens. Unfortunately, so do the faculty members. The receptionist has repeatedly e-mailed them reminders that only administrators are allowed to take the pens.

On Monday, a brand new professor, Professor Smith, starts her new job in the philosophy department. As a result of her recent appointment, she has not received any of the emails that are repeatedly sent out by the receptionist, and does not know that only administrators are allowed to take pens. On Monday morning, one of the administrative assistants encounters Professor Smith walking past the receptionist's desk. Both take pens. Later that day, the receptionist needs to take an important message...but she has a problem. There are no pens left on her desk.

Please rate how much you agree or disagree with the following statement:

"Given the actions of the professor, the problem had to occur."



Please rate how much you agree or disagree with the following statement:

"Given the actions of the administrative assistant, the problem had to occur."



Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the professor could have done differently."

Not at all relevant
Not at all relevant

Highly relevant
Highly relevant

".... what the professor could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"Prof. Smith knew that only administrative assistants are allowed to take pens."

Strongly Disagree

Strongly Agree

1 2 3 4 5 6 7

"Prof. Smith **should** have known whether or not only administrative assistants are allowed to take pens."

Strongly Disagree

Strongly Agree

1 2 3 4 5 6 7

Bullseye Modal Proxy - Immoral, No Knowledge

Please imagine the following scenario:

Jake takes part in a rifle contest. His aunt accompanies him to the rifle contest and watches him from the sideline. Jake desperately wants to win the rifle contest. He knows that he will only win the contest if he hits the bull's-eye. However, unbeknownst to him, the rifle bullets that are used in this contest have so much speed that they usually pierce through the target. One moment, he sees his aunt standing right behind the target. The chest area where the heart sits is at the level of the bulls eye. He raises the rifle, gets the bull's-eye in the sights, and presses the trigger. Jake is not very good at using his rifle. His hand slips on the barrel of the gun, and the shot goes wild. Nonetheless, the bullet lands directly on the bull's-eye and goes through the target. However, contrary to what Jake expected, the bullet goes through the target and hits his aunt directly in the heart. She dies instantly.

Please rate how much you agree or disagree with the following statement:

"Jake hit his aunt through sheer luck."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what Jake could have done differently."

Not at all relevant

Highly relevant

".... what Jake could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

“Jake knew that the rifle bullets would pierce through the target and hit his aunt.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

“Jake *should* have known whether or not the rifle bullets would pierce through the target and hit his aunt”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Gizmos - Immoral, No Knowledge

Please imagine the following scenario:

The convention in the Gizmo industry is for Gizmos to be a light color. Specifically, the convention is to make Gizmos that are colored lighter than blue. The vice-president of a company in the Gizmo industry went to the newly-hired chairman of the board and said, "We are thinking of starting a new program. It will help us increase profits, but it will result in our Gizmos being colored black." The new chairman does not yet know that the convention is to make Gizmos colored lighter than blue, so he is unaware that this would be violating the convention. The chairman of the board answered, "I don't care at all about the color of the Gizmos. I just want to make as much profit as I can. Let's start the new program." They started the program. As it happened, the Gizmos were black, colored darker than blue.

Please rate how much you agree or disagree with the following statement:

"How appropriate is it to say the chairman of the board intentionally made Gizmos colored darker than blue?"

Not at All Appropriate	Very Appropriate				
1 2	3	4	5	6	7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the chairman could have done differently."

Not at all relevant	Highly relevant
----------------------------	------------------------

".... what the chairman could have known."

Not at all relevant	Highly relevant
----------------------------	------------------------

Please rate how much you agree or disagree with the following:

"The chairman of the board knew the color conventions of Gizmos."

Strongly Disagree	Strongly Agree				
1 2	3	4	5	6	7

"The chairman of the board *should* have known the color conventions of Gizmos"

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Scrubs - Immoral, No Knowledge

Please imagine the following scenario:

There is a convention in medicine that medical students wear lighter-colored scrubs than doctors. Specifically, the convention is for medical students to wear light blue scrubs and doctors to wear dark blue scrubs. An employee went to the newly-appointed Chief of Medicine and said, "We are thinking of buying our scrubs from a new medical supply company. Using this new company will save the hospital money, but we will only have one choice for color. Specifically, the medical students' scrubs will be dark blue, much darker than they are currently." The new Chief of Medicine does not yet know that the convention is for medical student's scrubs to be colored light blue, so he is unaware that this would be violating the convention. The Chief of Medicine answered, "I don't care at all the color of medical students' scrubs. I just want to save money. Let's go with the new supply company." They bought from the new supply company. As a result, medical students' scrubs were dark blue.

Please rate how much you agree or disagree with the following statement:

"How appropriate is it to say the Chief of Medicine intentionally made Scrubs colored darker than blue?"

Not at All Appropriate

Very Appropriate

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the Chief of Medicine could have done differently."

Not at all relevant

Highly relevant

".... what the Chief of Medicine could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

"The Chief of Medicine knew the color conventions of Scrubs."

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

"The Chief of Medicine **should** have known the color conventions of Scrubs"

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Truck Trailers - Immoral, No Knowledge

Please imagine the following scenario:

The convention in the trucking industry is to have truck trailers that are colored lighter than blue. An employee at a trucking company went to the newly-hired boss and said, "We are thinking of changing the paint we use for the truck trailers. It will help cut costs, but it will result in our trailers being black." The new boss does not yet know that the convention is for truck trailers to be colored lighter than blue, so he is unaware that this would be violating the convention. The boss answered, "I don't care at all about the color of the trailers. I just want to cut costs as much as I can. Let's start the new program." They started the program. As it happened, the trailers were black, colored darker than blue.

Please rate how much you agree or disagree with the following statement:

"How appropriate is it to say the boss intentionally made truck trailers colored darker than blue?"

Not at All Appropriate

Very Appropriate

1 2

3

4

5

6

7

Now suppose that some people are discussing this scenario and wondering how things could have been different. In thinking about what could have happened differently, please tell us whether it would be relevant or irrelevant to focus on the following:

".... what the boss could have done differently."

Not at all relevant

Highly relevant

".... what the boss could have known."

Not at all relevant

Highly relevant

Please rate how much you agree or disagree with the following:

“The boss knew the color conventions of truck trailers.”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

“The boss *should* have known the color conventions of truck trailers”

Strongly Disagree

Strongly Agree

1 2

3

4

5

6

7

Feedback, Demographics and Payment Code

Please provide the following demographic information to complete the study.

1. My age is:

- My age in years is
- Prefer not to say.

2. Gender

- Female
- Male
- Non-binary
- Prefer not to say.

Race/Ethnicity

- Hispanic

- Black
- White
- Asian
- Prefer not to say.

Please comment if you had any issues with the survey, or if you noticed any errors or things to improve.

Debrief

Study Debriefing

Understanding other people's thoughts and linguistic communication are important aspects of interpersonal relationships. Using surveys like the one you just completed, we are examining how people with and without diagnoses of Autism Spectrum Disorder perceive other people's minds.

How is this being tested?

We have asked you to respond to stories that differ on several important factors. By isolating different variables that are involved in social thought, we can better understand how we understand other people's minds.

Main questions and hypotheses:

A fundamental goal of our research is to gather judgements from people with a diagnosis of Autism Spectrum Disorder. We aim to collect empirical measures of behavior through theory of mind and linguistic communication paradigms to gain a deeper understanding of how people perceive other people's minds. We hope our findings will provide a better understanding of the various facets of theory of mind.

Why is this important to study?

By comparing answers on these important factors, we learn about what factors affect theory of mind. This has crucial implications for many public domains, including the legal system.

How to learn more:

If you are interested in learning more, you may want to consult the following articles:
Phillips, J., & Cushman, F. (2017). Morality constrains the default representation of what is possible. *Proceedings of the National Academy of Sciences of the United States of America*, 114(18), 4649–4654. <https://doi.org/10.1073/pnas.1619717114>
Phillips, J., Morris, A., & Cushman, F. (2019). How we know what not to think. *Trends in Cognitive Sciences*, 23(12), 1026–1040. <https://doi.org/10.1016/j.tics.2019.09.007>
Phillips, J., Buckwalter, W., Cushman, F., Friedman, O., Martin, A., Turri, J., Santos, L., & Knobe, J. (2020). Knowledge before Belief. *Behavioral and Brain Sciences*, 1-37.
doi:10.1017/S0140525X20000618

How to contact the researcher: If you have questions or concerns about your participation or payment, or want to request a summary of research findings, please contact the Primary Investigator: Dr. Jonathan Phillips, at Jonathan.S.Phillips@dartmouth.edu.

Whom to contact about your rights in this research: If you have questions, concerns, complaints, or suggestions about the present research, you may call the Office of the Committee

for the Protection of Human Subjects at Dartmouth College (603) 646-6482 during normal business hours.

Thank you for your participation!

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