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| **Winning Money**Top of FormImagine you just won a lottery, worth $250, which will be paid to you immediately. However, the lottery commission is giving you the option of receiving a different amount, paid to you one year from now. Please choose which option you prefer in each pair. Make sure you provide an answer for all 10 pairs:

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Win $250 immediately |   | Win $410 one year from now |
| 2. | Win $250 immediately |   | Win $390 one year from now |
| 3. | Win $250 immediately |   | Win $370 one year from now |
| 4. | Win $250 immediately |   | Win $350 one year from now |
| 5. | Win $250 immediately |   | Win $330 one year from now |
| 6. | Win $250 immediately |   | Win $310 one year from now |
| 7. | Win $250 immediately |   | Win $290 one year from now |
| 8. | Win $250 immediately |   | Win $270 one year from now |
| 9. | Win $250 immediately |   | Win $250 one year from now |
| 10. | Win $250 immediately |   | Win $230 one year from now |

11. Please fill in the number that makes the following two options equally attractive:A. Win $250 immediately.B. Win $ one year from now.Bottom of Form |
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| **Losing Money**Top of FormImagine you just got a speeding ticket for $250, which you must pay immediately. However, the city court is giving you the option of paying a different amount instead, one year from now. Please choose which option you prefer in each pair. Make sure you provide an answer for all 10 pairs:

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Pay $250 immediately |   | Pay $410 one year from now |
| 2. | Pay $250 immediately |   | Pay $390 one year from now |
| 3. | Pay $250 immediately |   | Pay $370 one year from now |
| 4. | Pay $250 immediately |   | Pay $350 one year from now |
| 5. | Pay $250 immediately |   | Pay $330 one year from now |
| 6. | Pay $250 immediately |   | Pay $310 one year from now |
| 7. | Pay $250 immediately |   | Pay $290 one year from now |
| 8. | Pay $250 immediately |   | Pay $270 one year from now |
| 9. | Pay $250 immediately |   | Pay $250 one year from now |
| 10. | Pay $250 immediately |   | Pay $230 one year from now |

11. Please fill in the number that makes the following two options equally unattractive:A. Pay $250 immediately.B. Pay $ one year from now.Bottom of Form |
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| **INTRODUCTION TO THE AQI**The following questions concern changes in air quality. The level of air quality is measured using the Air Quality Index (AQI), a standard measure used by both the United States Environmental Protection Agency (EPA) and Canada's Ministry of the Environment. Please **carefully read** this explanation of the AQI, so you can understand the questions which follow. ***What is the AQI?*** The AQI is an index for reporting daily air quality that tells you how clean or polluted your air is. Think of the AQI as a number on a scale that runs from 0 to 500, which combines the measured level of many air pollutants. The higher the AQI value, the greater the level of air pollution in the region for which it is reported.***How is the AQI Determined?*** At the end of each hour, the concentration of each pollutant that an AQI station monitors is measured. The measures for the different pollutants are then combined into the AQI.An AQI value of 100 corresponds to the US national air quality “standard,” which was set by the Environmental Protection Agency (EPA). AQI values below 100 are generally thought of as satisfactory. ***Understanding the AQI*** The AQI is divided into six categories:

|  |  |  |
| --- | --- | --- |
| **Air Quality Index(AQI) Values** | **Air Quality** | **Colors** |
| http://www.stanford.edu/group/gsb-behlab/cgi-bin/djh/images/AQIcont.jpg | Good | http://www.stanford.edu/group/gsb-behlab/cgi-bin/djh/images/AQIcolors.jpg |
| Moderate |
| Unhealthy for Sensitive Groups |
| Unhealthy |
| Very Unhealthy |
| Hazardous |

Although the the table above is broken into six categories ("Good" to "Hazardous"), the AQI is a continuous scale. For example, even though 100 marks the upper limit for "moderate", the difference between AQI values of 98 and 102 is the same as the difference between 102 and 106. Top of FormBottom of Form |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Air Quality Improvement**Top of Formhttp://www.stanford.edu/group/gsb-behlab/cgi-bin/djh/images/AQIcont.jpgImagine the current average air quality index (AQI) in your area is 130 (within the "unhealthy for sensitive groups" range) and the local county government is considering a temporary change to its emissions policy to study the effects of air quality on human health and the local wildlife. The **pollution output** of nearby factories and power plants will be **reduced**, but they will be compensated so that they do not incur any costs during the test period. The test will lead to an immediate 40 point **improvement in average air quality** (meaning a 40 point decrease in AQI, from its current average of 130 to a temporary level of 90) for three months, after which time the air quality will return to its former level. However, the government is also considering carrying out the three-month test one year from now, with a different level of improvement. We are not interested in how you feel about the way the county government is studying air quality or what they will learn from the study. What we are interested in is your preference, as someone who will be personally affected by it, between the two options of having the air quality index improved by 40 points starting now, or having a potentially greater or lesser improvement in air quality that would start one year from now. Please choose which option you prefer in each pair. Make sure you provide an answer for all 10 pairs:

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | 40 point improvement in air quality, starting immediately |   | 64 point improvement in air quality, starting 1 year from now. |
| 2. | 40 point improvement in air quality, starting immediately |   | 61 point improvement in air quality, starting 1 year from now. |
| 3. | 40 point improvement in air quality, starting immediately |   | 58 point improvement in air quality, starting 1 year from now. |
| 4. | 40 point improvement in air quality, starting immediately |   | 55 point improvement in air quality, starting 1 year from now. |
| 5. | 40 point improvement in air quality, starting immediately |   | 52 point improvement in air quality, starting 1 year from now. |
| 6. | 40 point improvement in air quality, starting immediately |   | 49 point improvement in air quality, starting 1 year from now. |
| 7. | 40 point improvement in air quality, starting immediately |   | 46 point improvement in air quality, starting 1 year from now. |
| 8. | 40 point improvement in air quality, starting immediately |   | 43 point improvement in air quality, starting 1 year from now. |
| 9. | 40 point improvement in air quality, starting immediately |   | 40 point improvement in air quality, starting 1 year from now. |
| 10. | 40 point improvement in air quality, starting immediately |   | 37 point improvement in air quality, starting 1 year from now. |

Please answer the following questions (11-15) using the same air quality scenario described above. 11. Please fill in the number that makes the following two options equally attractive:A. 40 point improvement in air quality (for three months), starting immediatelyB.  point improvement in air quality (for three months), starting one year from now 12. Imagine you had a choice between receiving $250 **immediately** or having a 40 point improvement in air quality (for three months) **immediately**. Which would you prefer?

|  |  |
| --- | --- |
|  receive $250 immediately |  40 point improvement in air quality, starting immediately |

13. Please fill in the number that makes the following two options equally attractive:A. Receive $ immediatelyB. 40 point improvement in air quality (for three months), starting immediately 14. Imagine you had a choice between receiving $250 **immediately** or having a 40 point improvement in air quality (for three months) **one year from now**. Which would you prefer?

|  |  |
| --- | --- |
|  receive $250 immediately |  40 point improvement in air quality, starting one year from now |

15. Please fill in the number that makes the following two options equally attractive:A. Receive $ immediatelyB. 40 point improvement in air quality (for three months), starting one year from nowBottom of Form |
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**Air Quality Deterioration**

Top of Form

Imagine the current average air quality index (AQI) in your area is 90 (within the "moderate" range) and the local county government is considering a temporary change to its emissions policy to study the effects of air quality on human health and the local wildlife. The **pollution output** of nearby factories and power plants will be **increased**, but they will be taxed so that they do not incur any extra profits during the test period. The test will lead to an immediate 40 point **deterioration in average air quality** (meaning a 40 point increase in AQI, from its current average of 130 to a temporary level of 90) for three months, after which time the air quality will return to its former level. However, the government is also considering carrying out the three-month test one year from now, with a different level of deterioration.

We are not interested in how you feel about the way the county government is studying air quality or what they will learn from the study. What we are interested in is your preference, as someone who will be personally affected by it, between the two options of having the air quality index worsen by 40 points starting now, or having a potentially greater or lesser deterioration in air quality that would start one year from now.

Please choose which option you prefer in each pair. Make sure you provide an answer for all 10 pairs:

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | 40 point deterioration in air quality, starting immediately |   | 64 point deterioration in air quality, starting 1 year from now. |
| 2. | 40 point deterioration in air quality, starting immediately |   | 61 point deterioration in air quality, starting 1 year from now. |
| 3. | 40 point deterioration in air quality, starting immediately |   | 58 point deterioration in air quality, starting 1 year from now. |
| 4. | 40 point deterioration in air quality, starting immediately |   | 55 point deterioration in air quality, starting 1 year from now. |
| 5. | 40 point deterioration in air quality, starting immediately |   | 52 point deterioration in air quality, starting 1 year from now. |
| 6. | 40 point deterioration in air quality, starting immediately |   | 49 point deterioration in air quality, starting 1 year from now. |
| 7. | 40 point deterioration in air quality, starting immediately |   | 46 point deterioration in air quality, starting 1 year from now. |
| 8. | 40 point deterioration in air quality, starting immediately |   | 43 point deterioration in air quality, starting 1 year from now. |
| 9. | 40 point deterioration in air quality, starting immediately |   | 40 point deterioration in air quality, starting 1 year from now. |
| 10. | 40 point deterioration in air quality, starting immediately |   | 37 point deterioration in air quality, starting 1 year from now. |

Please answer the following questions (11-15) using the same air quality scenario described above.

11. Please fill in the number that makes the following two options equally unattractive:
A. 40 point deterioration in air quality (for three months), starting immediately
B.  point deterioration in air quality (for three months), starting one year from now

12. Imagine you had a choice between paying $250 **immediately** or having a 40 point deterioration in air quality (for three months) **immediately**. Which would you prefer?

|  |  |
| --- | --- |
|  pay $250 immediately |  40 point deterioration in air quality, starting immediately |

13. Please fill in the number that makes the following two options equally unattractive:
A. Pay $ immediately
B. 40 point deterioration in air quality (for three months), starting immediately

14. Imagine you had a choice between paying $250 **immediately** or having a 40 point deterioration in air quality (for three months) **one year from now**. Which would you prefer?

|  |  |
| --- | --- |
|  pay $250 immediately |  40 point deterioration in air quality, starting one year from now |

15. Please fill in the number that makes the following two options equally unattractive:
A. Pay $ immediately
B. 40 point deterioration in air quality (for three months), starting one year from now

**Health Improvement**

Top of Form

The next questions involve decisions about health. Please imagine that you are currently in **poor health**. Here is a description of what is meant by poor health:

Because of your doctor's instructions, you need to take medication (pills) once a day. You must also be very careful about what foods you eat, so you spend a lot of time keeping track of what you eat. You find it necessary to visit the bathroom quite often to urinate. You often feel tired and sometimes feel light-headed. You sometimes have trouble falling asleep and sometimes have nightmares when you do sleep. Your mouth sometimes feels dry, and foods do not seem to have as much taste as they used to. You don't have as much desire for sex as you used to, and you do not find sex as enjoyable as you used to. You often feel angry or irritated, and it is difficult to concentrate.

In the following questions, you will get to choose between two treatments that could **give you full health** for a limited amount of time. Here is a description of what is meant by full health:

You do not need to take any medication. You are also free to eat almost any foods you like. You need only visit the bathroom a few times a day to urinate. You usually feel full of energy and never feel light-headed. You never have trouble falling asleep and have pleasant dreams when you do sleep. Your mouth does not feel dry, and foods seem very tasty. You have a healthy desire for sex, and you find sex very enjoyable. You almost always feel cheerful or content, and you are able to concentrate on important tasks.

In the following questions, you will have to choose between two treatments that will **improve your health** from poor health to full health. However, after ending treatment, most patients find that they return to their poor health state within a week or two. Thus, each of the two treatments can give you full health for a limited period of time; after that you will return to your current poor health. In the following questions, you will be asked to choose between two different treatments. The treatments differ in the time when you experience this full health. Please choose which treatment you would prefer in each pair:

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Full health for 12 weeks, starting today |   | Full health for 20 weeks, starting 1 year from now.  |
| 2. | Full health for 12 weeks, starting today |   | Full health for 19 weeks, starting 1 year from now.  |
| 3. | Full health for 12 weeks, starting today |   | Full health for 18 weeks, starting 1 year from now.  |
| 4. | Full health for 12 weeks, starting today |   | Full health for 17 weeks, starting 1 year from now.  |
| 5. | Full health for 12 weeks, starting today |   | Full health for 16 weeks, starting 1 year from now.  |
| 6. | Full health for 12 weeks, starting today |   | Full health for 15 weeks, starting 1 year from now.  |
| 7. | Full health for 12 weeks, starting today |   | Full health for 14 weeks, starting 1 year from now.  |
| 8. | Full health for 12 weeks, starting today |   | Full health for 13 weeks, starting 1 year from now.  |
| 9. | Full health for 12 weeks, starting today |   | Full health for 12 weeks, starting 1 year from now.  |
| 10. | Full health for 12 weeks, starting today |   | Full health for 11 weeks, starting 1 year from now.  |

11. Please fill in the number that makes the following two options equally attractive:
A. Full health for 12 weeks, starting today.
B. Full health for weeks, starting one year from now.

12. Imagine you had a choice between receiving $250 **immediately** or having full health for 12 weeks starting **immediately**. Which would you prefer?

|  |  |
| --- | --- |
| receive $250 immediately | full health for 12 weeks, starting immediately |

13. Please fill in the number that makes the following two options equally attractive:
A. Receive $ immediately.
B. Full health for 12 weeks, starting immediately.

14. Imagine you had a choice between receiving $250 **immediately** or having full health for 12 weeks starting **one year from now**. Which would you prefer?

|  |  |
| --- | --- |
| receive $250 immediately | full health for 12 weeks, starting one year from now |

15. Please fill in the number that makes the following two options equally attractive:
A. Receive $ immediately
B. Full health for 12 weeks, starting one year from now

Bottom of Form

**Health Deterioration**

Top of Form

The next questions involve decisions about health. Please imagine that you are currently in **full health**. Here is a description of what is meant by full health:

You do not need to take any medication. You are also free to eat almost any foods you like. You need only visit the bathroom a few times a day to urinate. You usually feel full of energy and never feel light-headed. You never have trouble falling asleep and have pleasant dreams when you do sleep. Your mouth does not feel dry, and foods seem very tasty. You have a healthy desire for sex, and you find sex very enjoyable. You almost always feel cheerful or content, and you are able to concentrate on important tasks.

You will have to choose between two medical disorders that would cause you to **lose your full health** for a limited amount of time. Losing your full health means your health will fit the following description of poor health:

Because of your doctor's instructions, you need to take medication (pills) once a day. You must also be very careful about what foods you eat, so you spend a lot of time keeping track of what you eat. You find it necessary to visit the bathroom quite often to urinate. You often feel tired and sometimes feel light-headed. You sometimes have trouble falling asleep and sometimes have nightmares when you do sleep. Your mouth sometimes feels dry, and foods do not seem to have as much taste as they used to. You don't have as much desire for sex as you used to, and you do not find sex as enjoyable as you used to. You often feel angry or irritated, and it is difficult to concentrate.

In the following questions, you will have to choose between two disorders that will cause you to **lose your full health**. Each disorder only lasts for a limited period of time. After the disorder is over, most patients find that they return to their full health state within a few days. Thus, each of two disorders would cause you to be in poor health for a limited period of time; after that you will return to your current full health. The disorders differ in the time when you are in poor health. You will experience only one of the two disorders, but you must experience one. Please choose which disorder you would prefer in each pair:

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Poor health for 12 weeks, starting today |   | Poor health for 20 weeks, starting 1 year from now.  |
| 2. | Poor health for 12 weeks, starting today |   | Poor health for 19 weeks, starting 1 year from now.  |
| 3. | Poor health for 12 weeks, starting today |   | Poor health for 18 weeks, starting 1 year from now.  |
| 4. | Poor health for 12 weeks, starting today |   | Poor health for 17 weeks, starting 1 year from now.  |
| 5. | Poor health for 12 weeks, starting today |   | Poor health for 16 weeks, starting 1 year from now.  |
| 6. | Poor health for 12 weeks, starting today |   | Poor health for 15 weeks, starting 1 year from now.  |
| 7. | Poor health for 12 weeks, starting today |   | Poor health for 14 weeks, starting 1 year from now.  |
| 8. | Poor health for 12 weeks, starting today |   | Poor health for 13 weeks, starting 1 year from now.  |
| 9. | Poor health for 12 weeks, starting today |   | Poor health for 12 weeks, starting 1 year from now.  |
| 10. | Poor health for 12 weeks, starting today |   | Poor health for 11 weeks, starting 1 year from now.  |

11. Please fill in the number that makes the following two options equally attractive:
A. Poor health for 12 weeks, starting today.
B. Poor health for weeks, starting one year from now.

12. Imagine you had a choice between paying $250 **immediately** or having poor health for 12 weeks starting **immediately**. Which would you prefer?

|  |  |
| --- | --- |
| pay $250 immediately | poor health for 12 weeks, starting immediately |

13. Please fill in the number that makes the following two options equally attractive:
A. Pay $ immediately.
B. Poor health for 12 weeks, starting immediately.

14. Imagine you had a choice between paying $250 **immediately** or having poor health for 12 weeks starting **one year from now**. Which would you prefer?

|  |  |
| --- | --- |
| pay $250 immediately | poor health for 12 weeks, starting one year from now |

15. Please fill in the number that makes the following two options equally attractive:
A. Pay $ immediately
B. Poor health for 12 weeks, starting one year from now

Bottom of Form

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