

Informed Consent

Informed Consent Document*

Hi, my name is Jessica Lewis, and I am a graduate student at the University of North Florida. We are conducting a research study on first year students to understand any psychological, cognitive, and demographic differences between students who choose to pursue STEM and non-STEM related majors. We hope to learn more about the differences between participants to better understand why some students may choose certain majors.

If you take part in my project, you will complete two survey questionnaires and a 15-question basic math test that does not require a calculator. We expect that participation in this study will take about 30 to 40 minutes of your time. Your identity and responses will be anonymous. Only authorized personnel will have access to your responses.

There is a \$5.00 gift card compensation for completing the survey. Qualtrics will redirect you to an anonymous link where you will input your full name and email if you'd like to receive the gift card. This is not embedded in the survey; therefore, your identity remains anonymous.

There are no foreseeable risks for taking part in this project. Participation is voluntary and there are no penalties for deciding not to participate, skipping questions, or withdrawing your participation. You may choose not to participate in this research without negatively impacting your relationship with UNF.

If you have any questions or concerns about this project, please contact me or my advisor Dr. Perez (SPerez@unf.edu). A copy of this informed consent form can be printed to keep for your records.

If you have questions about your rights as a research participant or if you would like to contact someone about a research-related injury, please contact the chair of the UNF Institutional Review board by calling (904) 620-2498 or emailing irb@unf.edu.

Thank you for your consideration.

Sincerely,

Jessica Lewis

Email: N00961300@unf.edu

Dr. Susan Perez

Email: Sperez@unf.edu

- ☐ I consent
- ☐ I do not consent

Demographics

What is your gender?

- ☐ Male
- ☐ Female
- ☐ Other

How old are you?

Are you Spanish, Hispanic, or Latino or none of these (select all that apply).

- ☐ Spanish
- ☐ Hispanic
- ☐ Latino
- ☐ None of these

Please specify your ethnicity

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

What is the highest grade or level of school that your mom has completed?

- ☐ Some High School
- ☐ High School Graduate
- ☐ Some College
- ☐ Graduated 2-year College
- ☐ Graduated 4-year College
- ☐ Post Graduate
- ☐ Unsure

What is the highest grade or level of school that your father has completed?

- ☐ Some High School
- ☐ High School Graduate
- ☐ Some College
- ☐ Graduated 2-year College
- ☐ Graduated 4-year College
- ☐ Post Graduate
- ☐ Unsure

What is your mother's occupation?

What is your fathers occupation?

What was your high school GPA? (4.0 Scale)

0 1 2 3 4

GPA

What courses are you enrolled in this semester?

What is your major?

Please indicate any factors that influence your choice of college major

- ☐ Parents or Family
- ☐ Friends
- ☐ Level of pay
- ☐ Available job opportunities in the field
- ☐ Interest in the subject
- ☐ Skilled in the subject
- ☐ None of the above

Academic Performance Task

If $\frac{x-1}{3} = k$ and $k = 3$, what is the value of x ?

- A) 2
- B) 4
- C) 9
- D) 10

- ☐ A
- ☐ B
- ☐ C
- ☐ D

For $i = \sqrt{-1}$, what is the sum $(7 + 3i) + (-8 + 9i)$?

A) $-1 + 12i$

B) $-1 - 6i$

C) $15 + 12i$

D) $15 - 6i$

☐ A

☐ B

☐ C

☐ D

On Saturday afternoon, Armand sent m text messages each hour for 5 hours, and Tyrone sent p text messages each hour for 4 hours. Which of the following represents the total number of messages sent by Armand and Tyrone on Saturday afternoon?

A) $9mp$

B) $20mp$

C) $5m + 4p$

D) $4m + 5p$

☐ A

☐ B

☐ C☐ D

Kathy is a repair technician for a phone company. Each week, she receives a batch of phones that need repairs. The number of phones that she has left to fix at the end of each day can be estimated with the equation $P = 108 - 23d$, where P is the number of phones left and d is the number of days she has worked that week. What is the meaning of the value 108 in this equation?

- A) Kathy will complete the repairs within 108 days.
- B) Kathy starts each week with 108 phones to fix.
- C) Kathy repairs phones at a rate of 108 per hour.
- D) Kathy repairs phones at a rate of 108 per day.

☐ A☐ B☐ C☐ D

$$(x^2y - 3y^2 + 5xy^2) - (-x^2y + 3xy^2 - 3y^2)$$

Which of the following is equivalent to the expression above?

A) $4x^2y^2$

B) $8xy^2 - 6y^2$

C) $2x^2y + 2xy^2$

D) $2x^2y + 8xy^2 - 6y^2$

- ☐ A
- ☐ B
- ☐ C
- ☐ D

$$h = 3a + 28.6$$

A pediatrician uses the model above to estimate the height h of a boy, in inches, in terms of the boy's age a , in years, between the ages of 2 and 5. Based on the model, what is the estimated increase, in inches, of a boy's height each year?

- A) 3
- B) 5.7
- C) 9.5
- D) 14.3

- ☐ A
- ☐ B
- ☐ C
- ☐ D

$$m = \frac{\left(\frac{r}{1,200}\right)\left(1 + \frac{r}{1,200}\right)^N}{\left(1 + \frac{r}{1,200}\right)^N - 1} P$$

The formula above gives the monthly payment m needed to pay off a loan of P dollars at r percent annual interest over N months. Which of the following gives P in terms of m , r , and N ?

$$\text{A) } P = \frac{\left(\frac{r}{1,200}\right)\left(1 + \frac{r}{1,200}\right)^N}{\left(1 + \frac{r}{1,200}\right)^N - 1} m$$

$$\text{B) } P = \frac{\left(1 + \frac{r}{1,200}\right)^N - 1}{\left(\frac{r}{1,200}\right)\left(1 + \frac{r}{1,200}\right)^N} m$$

$$\text{C) } P = \left(\frac{r}{1,200}\right) m$$

$$\text{D) } P = \left(\frac{1,200}{r}\right) m$$

- ☐ A
☐ B
☐ C
☐ D

If $\frac{a}{b} = 2$, what is the value of $\frac{4b}{a}$?

A) 0

B) 1

C) 2

D) 4

☐ A

☐ B

☐ C

☐ D

$$3x + 4y = -23$$

$$2y - x = -19$$

What is the solution (x, y) to the system of equations above?

A) $(-5, -2)$

B) $(3, -8)$

C) $(4, -6)$

D) $(9, -6)$

☐ A

- ☐ B
- ☐ C
- ☐ D

$$g(x) = ax^2 + 24$$

For the function g defined above, a is a constant and $g(4) = 8$. What is the value of $g(-4)$?

- A) 8
- B) 0
- C) -1
- D) -8

- ☐ A
- ☐ B
- ☐ C
- ☐ D

$$b = 2.35 + 0.25x$$

$$c = 1.75 + 0.40x$$

In the equations above, b and c represent the price per pound, in dollars, of beef and chicken, respectively, x weeks after July 1 during last summer. What was the price per pound of beef when it was equal to the price per pound of chicken?

- A) \$2.60
- B) \$2.85
- C) \$2.95
- D) \$3.35

- ☐ A
- ☐ B
- ☐ C
- ☐ D

A line in the xy -plane passes through the origin and has a slope of $\frac{1}{7}$. Which of the following points lies on the line?

- A) (0, 7)
- B) (1, 7)
- C) (7, 7)
- D) (14, 2)

- ☐ A
- ☐ B
- ☐ C
- ☐ D

If $x > 3$, which of the following is equivalent

to $\frac{1}{\frac{1}{x+2} + \frac{1}{x+3}}$?

A) $\frac{2x+5}{x^2+5x+6}$

B) $\frac{x^2+5x+6}{2x+5}$

C) $2x+5$

D) x^2+5x+6

- ☐ A
- ☐ B
- ☐ C
- ☐ D

If $3x - y = 12$, what is the value of $\frac{8^x}{2^y}$?

A) 2^{12}

B) 4^4

C) 8^2

D) The value cannot be determined from the information given.

- ☐ A
- ☐ B
- ☐ C
- ☐ D

If $(ax + 2)(bx + 7) = 15x^2 + cx + 14$ for all values of x , and $a + b = 8$, what are the two possible values for c ?

- A) 3 and 5
- B) 6 and 35
- C) 10 and 21
- D) 31 and 41

- ☐ A
- ☐ B
- ☐ C
- ☐ D

Satisfaction

How satisfied are you with your exam performance?

- ☐ Extremely dissatisfied
- ☐ Somewhat dissatisfied
- ☐ Neither satisfied nor dissatisfied
- ☐ Somewhat satisfied
- ☐ Extremely satisfied

How satisfied do you think your parents would be with your exam score?

- ☐ Extremely dissatisfied
- ☐ Somewhat dissatisfied
- ☐ Neither satisfied nor dissatisfied
- ☐ Somewhat satisfied
- ☐ Extremely satisfied

Frost MPS

My parents set very high standards for me.

- ☐ 5 - Strongly agree
- ☐ 4 - Somewhat agree
- ☐ 3 - Neutral
- ☐ 2 - Somewhat disagree
- ☐ 1 - Strongly disagree

Organization is very important to me.

- ☐ 5 - Strongly agree
- ☐ 4 - Somewhat agree
- ☐ 3 - Neither agree nor disagree
- ☐ 2 - Somewhat disagree
- ☐ 1 - Strongly disagree

As a child, I was punished for doing things less than perfectly

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

If I do not set the highest standards for myself, I am likely to end up a second rate person.

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

It is important to me that I be thoroughly competent in what I do

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

I am a neat person

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

I try to be an organized person.

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

If I fail at work/school, I am a failure as a person

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

I should be upset if I make a mistake

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree

☐ 1 - Strongly Disagree

My parents wanted me to be the best at everything

- ☐ 5 - Strongly Agree
☐ 4 - Somewhat Agree
☐ 3 - Neutral
☐ 2 - Disagree
☐ 1 - Strongly Disagree

I set higher goals than most people.

- ☐ 5 - Strongly Agree
☐ 4 - Somewhat Agree
☐ 3 - Neutral
☐ 2 - Disagree
☐ 1 - Strongly Disagree

If someone does a task at work/school better than I do, then I feel as if I failed the whole task.

- ☐ 5 - Strongly Agree
☐ 4 - Somewhat Agree
☐ 3 - Neutral
☐ 2 - Disagree
☐ 1 - Strongly Disagree

If I fail partly, it is as bad as being a complete failure

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

Only outstanding performance is good enough in my family.

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

I am very good at focusing my efforts on attaining a goal

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

Even when I do something very carefully, I often feel that it is not quite right.

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

I hate being less than the best at things

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

I have extremely high goals

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

My parents expect excellence from me

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree

☐ 1 - Strongly Disagree

People will probably think less of me if I make a mistake.

- ☐ 5 - Strongly Agree
☐ 4 - Somewhat Agree
☐ 3 - Neutral
☐ 2 - Disagree
☐ 1 - Strongly Disagree

I never feel that I can meet my parents' expectations

- ☐ 5 - Strongly Agree
☐ 4 - Somewhat Agree
☐ 3 - Neutral
☐ 2 - Disagree
☐ 1 - Strongly Disagree

If I do not do as well as other people, it means I am an inferior being.

- ☐ 5 - Strongly Agree
☐ 4 - Somewhat Agree
☐ 3 - Neutral
☐ 2 - Disagree
☐ 1 - Strongly Disagree

Other people seem to accept lower standards from themselves than I do

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

If I do not do well all the time, people will not respect me

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

My parents have always had higher expectations for my future than I have.

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

I try to be a neat person.

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

I usually have doubts about the simple everyday things that I do

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

Neatness is very important to me

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

I expect higher performance in my daily tasks than most people

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree

☐ 1 - Strongly Disagree

I am an organized person

- ☐ 5 - Strongly Agree
☐ 4 - Somewhat Agree
☐ 3 - Neutral
☐ 2 - Disagree
☐ 1 - Strongly Disagree

I tend to get behind in my work because I repeat things over and over

- ☐ 5 - Strongly Agree
☐ 4 - Somewhat Agree
☐ 3 - Neutral
☐ 2 - Disagree
☐ 1 - Strongly Disagree

It takes me a long time to do something “right”

- ☐ 5 - Strongly Agree
☐ 4 - Somewhat Agree
☐ 3 - Neutral
☐ 2 - Disagree
☐ 1 - Strongly Disagree

The fewer mistakes I make, the more people will like me.

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

I never feel that I can meet my parents' standards.

- ☐ 5 - Strongly Agree
- ☐ 4 - Somewhat Agree
- ☐ 3 - Neutral
- ☐ 2 - Disagree
- ☐ 1 - Strongly Disagree

Academic Self-Concept

Do you often think of yourself as an outstanding student?

- ☐ 1 – Never true
- ☐ 2 – Rarely true
- ☐ 3 – Sometimes but infrequently true
- ☐ 4 – Neutral
- ☐ 5 – Sometimes true
- ☐ 6 – Usually true
- ☐ 7 – Always true

How much do you worry about whether other people will regard you as a success or a failure in your job or in school?

- ☐ 1– Never true
- ☐ 2 – Rarely true
- ☐ 3 – Sometimes but infrequently true
- ☐ 4 – Neutral
- ☐ 5 – Sometimes true
- ☐ 6 – Usually true
- ☐ 7 – Always true

Do you ever think that you have more ability in mathematics than most of your classmates?

- ☐ 1 – Never true
- ☐ 2 – Rarely true
- ☐ 3 – Sometimes but infrequently true
- ☐ 4 – Neutral
- ☐ 5 – Sometimes true
- ☐ 6 – Usually true
- ☐ 7 – Always true

Do you ever feel less capable academically than others at your grade level?

- ☐ 1– Never true
- ☐ 2 – Rarely true
- ☐ 3 – Sometimes but infrequently true
- ☐ 4 – Neutral

- ☐ 5 – Sometimes true
- ☐ 6 – Usually true
- ☐ 7 – Always true

Have you ever thought that you had a greater ability to read and absorb articles and textbooks than most people?

- ☐ 1– Never true
- ☐ 2 – Rarely true
- ☐ 3 – Sometimes but infrequently true
- ☐ 4 – Neutral
- ☐ 5 – Sometimes true
- ☐ 6 – Usually true
- ☐ 7 – Always true

How often do you have difficulty expressing your ideas in writing for class assignments?

- ☐ 1– Never true
- ☐ 2 – Rarely true
- ☐ 3 – Sometimes but infrequently true
- ☐ 4 – Neutral
- ☐ 5 – Sometimes true
- ☐ 6 – Usually true
- ☐ 7 – Always true

Do you often think of yourself as good at mathematical problems?

- ☐ 1– Never true
- ☐ 2 – Rarely true
- ☐ 3 – Sometimes but infrequently true
- ☐ 4 – Neutral
- ☐ 5 – Sometimes true
- ☐ 6 – Usually true
- ☐ 7 – Always true

Do you think of yourself as a generally competent person who can do most things well?

- ☐ 1– Never true
- ☐ 2 – Rarely true
- ☐ 3 – Sometimes but infrequently true
- ☐ 4 – Neutral
- ☐ 5 – Sometimes true
- ☐ 6 – Usually true
- ☐ 7 – Always true

Compared with others, how confident do you feel in your mathematical abilities?

- ☐ Very confident
- ☐ Somewhat confident
- ☐ Neutral
- ☐ Somewhat confident
- ☐ Not at all confident

Do you think of yourself as someone who can do quite well on exams and assignments in most of your classes?

- ☐ Very often
- ☐ Most of the time
- ☐ About half the time
- ☐ Sometimes
- ☐ Practically never

Are you frequently concerned about your ability to do well in school?

- ☐ Very often
- ☐ Most of the time
- ☐ About half the time
- ☐ Sometimes
- ☐ Practically never

When you have to read an essay and understand it for a class assignment, how worried or concerned do you feel about it?

- ☐ Very often
- ☐ Most of the time
- ☐ About half the time
- ☐ Sometimes
- ☐ Practically never

When you have to write an essay to convincingly express your ideas, how confident do you feel that you have done a good job

- ☐ Very often
- ☐ Most of the time
- ☐ About half the time
- ☐ Sometimes
- ☐ Practically Never

How often have you felt that your mathematical ability was far below that of your classmates?

- ☐ Very often
- ☐ Most of the time
- ☐ About half the time
- ☐ Sometimes
- ☐ Practically never

Are you often concerned that your school performance is not up to par?

- ☐ Very often
- ☐ Most of the time
- ☐ About half the time
- ☐ Sometimes
- ☐ Practically never

How confident do you feel about your ability to do well on a standardized achievement test with respect to the verbal comprehension portion?

- ☐ Very confident
- ☐ Somewhat confident
- ☐ Neutral
- ☐ Somewhat confident
- ☐ Not at all confident

How confident do you feel about your ability to do well on a standardized achievement test with respect to the mathematics portion?

- ☐ Very confident
- ☐ Somewhat confident
- ☐ Neutral
- ☐ Somewhat confident
- ☐ Not at all confident