



Upward Bound Math & Science

December/January 2018

Volume 6, Issue 4

Northwest Missouri State University, Maryville, MO 64468

TRIO

UPWARD BOUND MATH/SCIENCE

ACT Test Dates

Test: Feb. 10, 2018
Registration: Jan. 12, 2018

Test: Apr. 14, 2018
Registration: Mar. 9, 2018

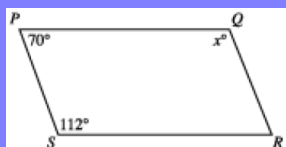
Contact us for your ACT fee waiver today!

Make sure you have your Test Scores sent to TRIO using Code 9713



From: www.ACT.org

In quadrilateral $PQRS$ below, sides PS and QR are parallel for what value of x ?



- a. 158
- b. 132
- c. 120
- d. 110
- e. 70

(Answer on page 4)



Equipped with his five senses, man explores the universe around him and calls the adventure Science.
-Edwin Powell Hubble

(Edwin Hubble (1889-1952) was an American astronomer known for his significant contribution to astronomy including Hubble's Law.)



Assistant Director's Corner

We all have our own holiday and Christmas traditions. The older I get, those traditions seem to become more important to me. You know those ones that really annoy you now? Yes, I had them too!

As you know families experience loss while also experiencing family growth. The additions are absolutely amazing and bring so much joy, while the losses cause a mixed feeling of sorrow and wanting to hold on to those old annoying traditions. Those traditions bring comfort and peace while remembering those loved ones that have gone before us.

Why am I sharing this with you? Because I want you to cherish every one of the memories you make this time year and every year after. Create them, enjoy them and share them. They are who you are and as you grow and leave for college, a career and life they will keep you strong.

So, what are your holiday traditions? We all come from different backgrounds, faiths, beliefs and values; so, take the time to educate others on your heritage and traditions. Provide them experiences and new memories doing and learning something new this season! I cannot wait to hear all about them the next time we meet...or better yet, share

them in our FB groups and really reach beyond your local area.

I will start. My favorite family tradition is our Annual Cookie Night. My entire family, (aunts, uncles, cousins, close friends, etc.) all gather at my Aunt Nancy's house to bake and make all of our holiday sweet treats ☺. We do candy covered pretzels, sugar cookies, turtle cookies, fudge, I make little mice, the littles get to make ginger bread houses and so much more. This event takes place on December 16th this year. I will definitely share pictures on the UBMS page. Just thinking about this event brings a smile to my face and a feeling of joy. So my advice to you today is enjoy the season and make the most of every single memory no matter how small it appears. Enjoy life and bring a smile to someone else today!!

Tanya



Admission Process: Four-Year College— from Iowa College Aid— 2017-18 Your Course to College

***Gather Necessary Information and Complete the College's Application.** Items needed:

- Social Security Number
- GPA and class rank
- Name and address of current and previous high schools
- I-94 card (if applicable)
- ACT or SAT score
- Dual credit information

***Request Your Official High School Transcript.** You'll need to submit an official transcript to each college. Transcripts can be requested through your high school.

***Pay the Application Fee or Submit a Fee Waiver.** You might have to pay an application fee, although some colleges waive the fee if you apply online. If you can't afford the fee, talk to your counselor about applying for a fee waiver. You can also contact UBMS office for one.

***Submit Your Test Scores.** Most four-year colleges will

require official ACT or SAT results.

***Submit Letters of Recommendation.** Well-written letters can highlight your unique and impressive characteristics. Request letters from teachers and counselors who know you and your abilities.

***Submit Additional Material.** Some programs might have additional requirements, such as a portfolio for art, design, or architecture programs.

***Write Application Essay.** If your college requires an essay, it might provide a specific topic. Think of ways to make yours stand out.

***Submit the Application and Confirm Receipt**

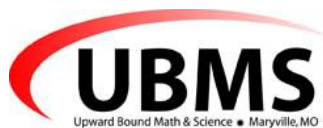
***Schedule and Go to Interview.**

***Finished!** Watch for an admissions decision.





December/January- College Planning Tips - *from ICAN*

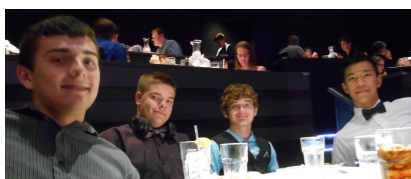


Sophomores:

*College can be affordable. Try not to be put off by “sticker shock” and don’t drop colleges from your search because of the price.

*Get a great start to the new year by looking at your study habits. What’s working for you? What isn’t? Make a study schedule and stick to it.

*Even though you won’t need to apply for financial aid until you’re a senior, you can begin to learn about the process.



Seniors:

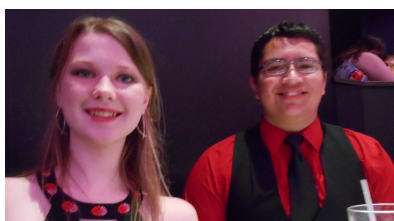
* Visit with your school counselor about application deadlines, local or state scholarships, and grants.

*Stay focused! Grades in your senior year can affect college admittance.

*Watch for your Student Aid Report (SAR) if you have filed your FAFSA. Check that it lists all the colleges requiring receipts of your FAFSA.

*Have your high school send your first semester transcripts to the colleges where you have applied.

*Don’t forget to log into College Greenlight.



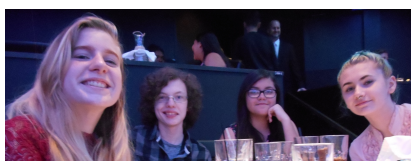
College:

Here are some lifehack tips for cheap food and services and frugal living in college:

Utilize Student Services on Campus. Your own school is the first place to start looking for free or low cost services designed for students. Take advantage of the student health center, gym and medical center.

Use Your College ID for Discounts. Just like your grandma gets a senior discount, college students can get discounts too, depending on the store or service. Don’t be afraid to ask!

Volunteer and Get Free Lunch. Socially active students may be able to get a free lunch by joining on-campus clubs and organizations.



Juniors:

*Register now if you’re planning to take the January SAT or February ACT.

*Consider volunteering during your holiday break. Be sure to log your volunteer work in your activities portfolio.

*Start the new year right by scheduling campus visits to the top 2 or 3 colleges on your list.

*Don’t forget to log into College Greenlight.

-From: Iowa College Access Network

Parents:

*Review the information you and your student gather on colleges and discuss the options. Work toward attainable goals and workable solutions. Before you know it, your child will be heading to college, and you will have played an important role.

-From: Iowa College Access Network



Buy in Bulk. Things cost less per unit when you buy more of them at a time. So if you have the storage space, buy stuff you know you’ll need a lot of in bulk: snacks, soda, and water, cereal, laundry detergent.

Leave the Car at Home. College students don’t really need a car. Everything you need is on campus or a short walk into town. If you need to travel, ride a bicycle for extra exercise, use public transportation, get a ride with a friend, and carpool.

Paying for necessities in college is not easy, but it can be an unforgettable experience.

By Lorraine Savage in Cengage Brainiac on October 12, 2016

-From: blog.cengagebrain.com





Career: Agricultural Engineer- from bigfuture.collegeboard.org

At the beginning of the twentieth century, it took four farmers to grow enough food for ten people. By the end of the century, one farmer could feed one hundred.

Agricultural engineers have contributed to this dramatic improvement. They've invented machinery, improved production systems, and found ways to grow healthier and stronger plants.

Agricultural engineers use science and math to meet agricultural challenges. They help farms grow better and more food, look for ways to conserve soil and water, and design tools and equipment.

Agricultural Engineers now use Global Positioning Systems (GPS), a network of computers and satellites, to help farmers get the biggest possible crops from their land and water.

Did You Know...?

Agricultural engineers are using enzymes to convert fats in foods to healthier substances.

Outlook

Government economists expect jobs for **Agricultural Engineers** to grow slower than the average for all occupations through 2020. These professionals may find work designing new equipment and machinery, applying high-tech farming methods, managing water resources, and helping to produce crops as alternative fuel sources. U.S. firms that sell farming technologies to an international market will also need these engineers.

Compensation

The U.S. Bureau of Labor Statistics estimates that in 2011 the average yearly salary of:

***Agricultural Engineer:**
is \$78,400

Did you know?

The first experiment in agricultural aviation, or crop dusting, took place in Ohio in 1921.



Are you ready to....?

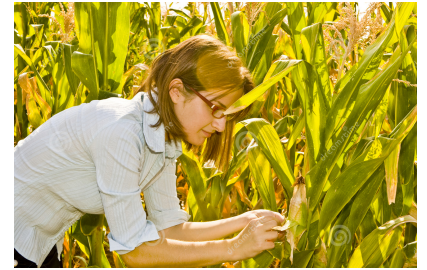
- * Solve complex problems
- * Work outdoors and indoors
- * Travel to different job sites
- * Use tools and large machines
- * Be careful and accurate
- * Work as part of a team

It helps to be...

A math and science fan who enjoys solving problems and working with machines. If you love plants, animals, and the satisfaction of seeing your ideas bear fruit, this could be a great career for you.



Agricultural Engineers at work.



Make High School Count

Preparation is the key to any career. To become an **Agricultural Engineer**, you should:

- * Take advanced math and science courses.
- * Pay attention in English. You'll need to write about your ideas.
- * Build computer skills. Take computer science and computer-assisted drafting.
- * Sign up for shop class and get hands-on experience with tools and machines.
- * Join a group or club that deals with agriculture, such as 4-H or FFA.

Education:

To become an engineer, you'll need a bachelor's degree.

-bigfuture: by the 2017 The College Board

Related Careers:

- Conservation Scientists
- Geoscientists
- Foresters and Forestry Technicians



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UPWARD BOUND MATH/SCIENCE





Phone:
(660) 562-1538
(660) 562-1632

Fax:
(660) 562-1631

E-Mail:
ubms@nwmissouri.edu



We're on the Web!

See us at:
www.nwmissouri.edu/trio/ubms

Vocabulary Practice

From: vocabtest.com

The overachiever was always diligent when it came to her class work until she started dating and then her grades went downhill. Diligent means...

- A. Stagnant
- B. Industrious
- C. Dormant
- D. Idle

Answer: B

www.ACT.org

For
Question on page 1

Answer: D

ACT Prep – General Test Tips – from ACT.org

~Carefully read the instructions on the cover of the test booklet.

~Read the directions for each test carefully.

~Read each question carefully.

~Pace yourself – don't spend too much time on a single passage or question.

~Use a soft-lead No. 2 pencil with a good eraser. Do not use a mechanical pencil or ink pen; if you do, your answer document cannot be scored accurately.

~Fill in the oval completely, and make your marks heavy and black.

~Answer the easy questions first, and then go back and answer the more difficult ones if you have time remaining on the test.

~Answer every question. Your scores on the multiple-choice test are based on the number of questions you answer correctly. You will not be penalized for guessing. It is to your advantage to answer every question even if you must guess.

~When time is called on any test, lay your pencil down immediately and do not mark or alter any ovals on the test. If you do, you will be dismissed and your document will not be scored.

Money Lessons– from Business Insider – Your Money – www.businessinsider.com

1. About Banking.

- Understand where your money goes.
- A budget is just a plan for your money.
- A checking account is different from a savings account, so don't treat it as one.
- Never pay ATM or checking fees. Research/find a bank/ATM without fees.

2. About Credit.

- Don't confuse debit and credit cards.
- Don't charge money to your credit card that you can't afford to pay.
- You should avoid credit card debt at all costs.
- It's never too early to begin building your credit.

3. About Working.

- People don't give you money you don't ask for.
- You'll always take home less money than you expect.
- Most jobs won't make you rich on their own.

4. About Student Loans.

- Public and private student loans are entirely different animals.
- Start paying your loans before you have to.
- Don't pay just the minimum.
- Missing bill payments is a slippery slope.

For more, see: "29 Money Lessons Every High School Graduate Should Know" by Libby Kane – July 24, 2014



About Our Organization...

Who are we?

A life-enhancing college-prep program that provides opportunities for capable and motivated high school students to gain the academic and life skills necessary to enter and succeed in post-secondary education.

* 100% funded by a grant from the U.S. Department of Education

* Serving high school students from Iowa, Nebraska, Kansas, and Missouri since 1992

January Mentor Reports are due on January 30. Please remind your mentor to send in the report noting the number of times met in Nov., Dec. & Jan. Don't forget to send in your first semester grades and second semester schedule, too.

