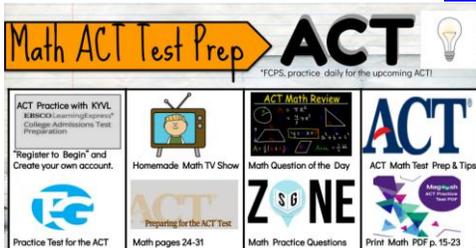


ACT 2024 *Homemade Math* Video

Name _____

1. When is the testing window for the school-wide administration of the ACT?
2. What does ACT stand for?
3. Why should you be sure to eat breakfast the morning of the ACT?
4. What are some things that you should bring with you to the ACT?
5. What are you NOT allowed to have during the ACT?
6. When we take the ACT in March, will it be on the computer or on paper?
7. How many questions are in the math section?
8. What is the time limit for the math section?
9. How many answer choices are there for each question?
10. How are the answers typically organized?
11. Does the test itself typically ask questions in any particular order?
12. Will you be given a formula sheet, or will formulas be provided?
13. If you attend a *test-optional* college, why does your **math ACT score** still matter?
14. What TWO scores from the ACT are submitted to your college?
17. Some tips:
 - Get as many questions correct as possible, especially at the _____ of the test
 - Do _____ leave anything blank!
 - Keep a list of questions you may want to double-check on scrap paper.
18. How to fix common errors or issues
 - Be sure to answer the question asked!
 - Don't leave any blanks
 - Use your calculator!
 - Use the given diagrams!
19. **ACT Math Choiceboard:** <https://bit.ly/FEESEACT>



(the Bit.ly/FEESEACT is case sensitive.)

Go to **Bit.ly/FEESEACT** for practice and more!

20. Tips to raise your math score:
- Every ____ correct questions will raise your score by 1 point
 - Do _____ problems!
 - IXL computer program – ACT math module
 - _____ formulas
 - Know how to use your _____
21. How many times can you take the ACT for free, thanks to our legislators and school system?
22. You can pay to retake the test on your own time. It is worth it! It costs \$68 for the basic test. To get the solutions and your answers will cost an extra _____. The total to pay when registering will be _____. If you are Free/Reduced lunch, see your counselor for a waiver.
23. Remember that higher ACT scores mean MORE KEES money and more scholarship offers! (**And** no remedial math college courses)
24. How long will it take to get my results back from the schoolwide ACT administration? _____*When you pay, it usually takes around 2 weeks for results.
25. Your ACT scores stay with you for _____, but you can retake and improve your scores *anytime*!
26. Take the interest inventory seriously, as it can give you career opportunity ideas based on the inventory and your scores.

Here are some essential formulas to review and memorize!

- Area of a Square: $A = s^2$
- Area of a Rectangle: $A = bh$
- Area of a Triangle: $A = \frac{1}{2}bh$
- Area of a Circle: $A = \pi r^2$
- Area of a Parallelogram: $A = bh$
- Area of a Trapezoid: $A = \frac{1}{2}h(b_1 + b_2)$
- Circumference of a Circle: $C = 2\pi r$
- Volume of a Cube: $V = s^3$
- Volume of a Rectangular Prism: $V = lwh$
- Volume of a Cylinder: $V = 2\pi r^2h$
- Pythagorean Theorem: $c^2 = a^2 + b^2$
- Equation of a Line: $y = mx + b$
- Equation of a Circle: $(x - h)^2 + (y - k)^2 = r^2$
- Sine: $\sin \theta = \text{opposite/hypotenuse}$
- Cosine: $\cos \theta = \text{adjacent/hypotenuse}$
- Tangent: $\tan \theta = \text{opposite/adjacent}$
- Distance:

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

- Midpoint:

$$M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

Slope:

$$m = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$$

Quadratic Formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$