Applied Mathematics

This document contains screenshots of the ACT WorkKeys® Internet Version Applied Mathematics Terms and Conditions, Tutorial, Practice Test, and Test Directions.

Testing staff may use this document as a reference if examinees have questions while navigating through these screens. This document can only be used with the Internet Version assessment. The information on these screens is NOT to be read to the examinee.
Welcome to the ACT WorkKeys Applied Mathematics Test.
ACT WorkKeys Applied Mathematics – 12758

Candidate Name

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Examinee Agreement

IMPORTANT: IF YOU DO NOT AGREE WITH THIS STATEMENT, YOU WILL NOT BE ABLE TO TAKE THIS TEST.

Agree  By selecting this option, you certify that you are the person identified at the top of this screen, that the information provided during test registration is accurate to the best of your knowledge, and that you agree to the Terms and Conditions explained above by ACT, including but not limited to, those related to binding arbitration and limitation or remedies.

Disagree  I have read the Terms and Conditions and Examinee Agreement and disagree with these statements. I understand that I will not be allowed to take this ACT WorkKeys assessment.
Welcome to the Applied Mathematics Tutorial

The next several screens provide a short tutorial that will explain to you how to move through the test and keep track of your progress. The time you spend on this tutorial does NOT count against the time allocated for the test itself. Arrows will guide you through the different screen features.
The gray menu bar at the top of the screen is used to access features of the test.

Each of the buttons on the menu bar and the buttons at the bottom of the screen will be explained in this tutorial.

To go on to the next screen of the tutorial, click on NEXT below.
This part of the screen shows the test title, the item you are on, and the total number of items in the test.
The timer shows how much time (in minutes and seconds) you have left to complete the test. It starts counting down as soon as you look at the first item of the test.

The time will turn RED when you have 5 minutes left in the test.

You can hide the timer by clicking TIMER. To show the timer, click TIMER again.

IMPORTANT: Hiding the timer does NOT stop it from counting down.
Quick Call charges 18¢ per minute for long-distance calls. Econo Phone totals your phone usage each month and rounds the number of minutes up to the nearest 15 minutes. It then charges $7.90 per hour of phone usage, dividing this charge into 15-minute segments if you used less than a full hour. If your office makes 5 hours 3 minutes worth of calls this month using the company with the lower price, how much will these calls cost?

- A $39.50
- B $41.48
- C $41.87
- D $54.00
- E $54.54

Click on the box next to your answer. To change your answer, click on a different box.

Test item.
Clicking the Record Answer/Next Item button at the bottom of each item will record the answer you’ve selected for the item and move you to the next item.

Clicking the Skip Item button will move you to the next item without recording your answer.
Clicking on Mark for Review allows you to mark an item if you want to review it later.

When you click on Mark for Review, a checkmark appears next to the item number. The item has been marked for you to review.

Clicking on Mark for Review again will remove the mark on the item.

If you mark an item for review, you can move to the next item in the test without answering the marked item. You can look at your marked items at any time during the test by clicking on Navigate and Review.
Clicking on Navigate and Review will take you directly to the Review screen. You can see which items are marked for review, which items are answered, and which items are unanswered from the Review screen.

Note: The timer will continue to run while you are using the Review screen.
Use these options to filter which questions you want to review.

Click on the number of the item you want to review.

Click here to end your review and return to the test.
Anytime during the math test, click the Formula button in the navigation bar to open a window of common math formulas.

Click the "X" in the upper right-hand corner of the Formula window to close it.
Clicking on Help allows you to choose from a list of questions about common functions in the test. You can select any of the questions for review and return to the test at any time.

Note: The timer will continue to run while you are using Help.
Clicking on Quit will show the End Of The Test screen.

From this screen you can choose to go back to the test or to end the test and submit your answers.
You have finished the tutorial. To review the tutorial again, click on the PREVIOUS button. To begin the test, click on the NEXT button.

Note: If you click NEXT, you will not be able to view the tutorial again. If you have any questions, please ask your test administrator before you begin the test.
As a nurse, you weigh each patient. A patient weighs 65 kilograms. About how much does the patient weigh in pounds?

A. 2.2
B. 65
C. 130
D. 143
E. 195
PRACTICE ITEM
THIS ITEM WILL NOT BE SCORED

The production line where you work can assemble 5 amplifiers every 30 minutes. At this rate, how long should it take the line to assemble 125 amplifiers?

☐ A. 4 hours 10 minutes
☐ B. 12 hours 30 minutes
☐ C. 12 hours 50 minutes
☐ D. 20 hours 50 minutes
☐ E. 25 hours
You have reached the end of the practice test.

Do you want to:

- [ ] Review
- [ ] Complete and finalize your results
Applied Mathematics Test Directions

55 Minutes – 33 Items

There are 33 items in this test, a small number of which are included for developmental purposes. Answers to these developmental items will not count toward your score.

This test measures math skills related to success in the workplace. After reading an item, use your calculator and scratch paper to work the problem. Decide which answer is the best, then click on the checkbox that matches your answer. If you change your mind about an answer, click on your new answer.

NOTE: Unless the item indicates otherwise, you should assume all of the following:

1. Diagrams are not necessarily drawn to scale.
2. The word “line” indicates a straight line.
3. If a problem calls for $\pi$, use the number 3.14 for that value. If you have a $\pi$ key on your calculator and you use that key, your answers may not match any of the options given for the problem.
4. The word “average” indicates arithmetic mean. For example, the average of 2, 6, and 7 is calculated as follows: $(2 + 6 + 7) / 3$.

NOTE: After you exit the test, you cannot go back to any items.

Click the NEXT button to begin the timed test.
STOP

DO NOT USE THE X IN THE UPPER RIGHT CORNER TO LEAVE THE TEST!
If you do, it will result in an incomplete test record and the system will not generate your score report.

Choose "Complete and finalize your results" when you are ready to end the test.

Are you ready to begin the test?

[YES] [NO]

Start the clock and begin the test.

Return to the test directions before starting the clock.
Thank you for taking the ACT WorkKeys Applied Mathematics Test.