

**Contest Date(s):**

April 15, 2021

(Online testing window will open at 9:00am;

Competitors will have 90 minutes to complete the test)

**Contest Type: VIRTUAL**

(All contest types are listed on the website. YOU NEED TO BE FAMILIAR  
WITH BOTH THIS DOCUMENT AND THAT DOCUMENT.)

**Classmarker Online Testing Link:**

<https://www.classmarker.com/online-test/start/?quiz=dhx6064c12138a93>

## PURPOSE

To evaluate the contestant's understanding and ability to solve mathematical problems commonly found in the skilled trades, professional and technical occupations.

## ELIGIBILITY

Open to active SkillsUSA members, in accordance with the SkillsUSA Ohio Program Guidelines.

## TOOLS PROVIDED BY CONTESTANTS

- Ability to access Classmarker online testing link provided above

## TOOLS PROVIDED BY TECHNICAL COMMITTEE

- 50 test problems with instructions

## SPECIAL INFORMATION:

- No smart watches or phones are permitted during the contest.
- Scratch paper is permitted to be used and must be immediately discarded by the end of the contest
- Contestants will have 90 minutes to complete the online test (testing window opens at 9am on April 15, 2021)

## SCOPE OF THE CONTEST

The contest will be judged based on the criteria established in the current year's National Technical Standards, which are updated annually. National Technical Standards are accessed through your Professional SkillsUSA Membership benefits by logging on to your SkillsUSA account at <https://www.skillsusa-register.org/Login.aspx>.

## Knowledge of Performance

A written knowledge test will be required. A sound knowledge of geometry, algebra, trigonometry and basic statistics will prepare the students to exhibit their problem-solving skills for this part of the contest.

## Contest Guidelines

1. The written knowledge test comprises 50 problems applicable to any career and technical field. It covers applications of the fundamental operations of whole numbers, fractions and decimals, including applications of percentages, ratio and proportion, averages, areas and volumes.
2. The knowledge test will provide the student the opportunity to demonstrate his or her problem-solving skills, not just mathematical ability.
3. Students have two hours to complete the problems and check their answers.
4. Hand-held calculators may be used. Competitors need nothing more than a simple scientific calculator that can be purchased for about \$10–\$15. A graphing calculator is not necessary. The test is based on real-world mathematical applications and reasoning — not theoretical mathematics.
5. No bonus will be given for early completion of the knowledge test.

