



Related Technical Math (National-Level Contest)

General Regulations

See General Regulations, pages 2–6.

Purpose

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

Clothing Requirement

SkillsUSA official attire or clothing that is appropriate for an interview should be worn.

Eligibility

Open to active SkillsUSA members

Equipment and Materials

1. Supplied by the technical committee:

- a. Tables and chairs
- b. Test problems and instructions
- c. Scratch paper and no. 2 pencils
- d. Formula sheets and conversion tables/charts

2. Supplied by the contestant:

- a. One-page, typewritten résumé
 - b. Hand-held nonprogrammable calculator (**Note:** Cell phone calculators are not permitted.)
- Note:** No reference materials may be used other than those provided by the technical committee.

Scope of the Contest

1. Contestants will demonstrate their ability to solve mathematical problems selected by contest officials. The contest poses challenging mathematical problems similar to those encountered in business and industry, including problem-solving situations with real-world applications.
2. The test contains 50 problems applicable to any trade and industrial 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. A sound knowledge of basic mathematics, algebra, geometry, trigonometry, and basic statistics will prepare the students to exhibit their problem-solving skills. The test will provide the students the opportunity to demonstrate their problem-solving skills, not just their mathematical ability.
3. Students have two hours to complete the problems and check their answers. No bonus will be given for early completion of the test.

Rating Sheet

Please refer to Appendix A for the "Related Technical Math Rating Sheet."