

Forms of Answers

The following rules explain acceptable forms for answers. Coaches should ensure that Mathletes are familiar with these rules prior to participating at any level of competition. Competition answers will be scored in compliance with these rules for forms of answers.

Units of measurement are not required in answers, but they must be correct if given. When a problem asks for an answer expressed in a specific unit of measure or when a unit of measure is provided in the answer blank, equivalent answers expressed in other units are not acceptable. For example, if a problem asks for the number of ounces and 36 oz is the correct answer, 2 lb 4 oz will not be accepted. If a problem asks for the number of cents and 25 cents is the correct answer, \$0.25 will not be accepted.

The plural form of the units will always be provided in the answer blank, even if the answer appears to require the singular form of the units.

Geometric figures may not be drawn to scale and lengths of geometric figures should be assumed to be measured in "units" unless otherwise stated.

All answers must be expressed in simplest form. A "common fraction" is to be considered a fraction in the form $\pm \frac{a}{b}$, where a and b are natural numbers and $\text{GCF}(a, b) = 1$. In some cases the term "common fraction" is to be considered a fraction in the form $\frac{A}{B}$, where A and B are algebraic expressions and A and B do not have a common factor. A simplified "mixed number" ("mixed numeral," "mixed fraction") is to be considered a fraction in the form $\pm N\frac{a}{b}$, where N , a and b are natural numbers, $a < b$ and $\text{GCF}(a, b) = 1$. Examples:

Problem: What is $8 \div 12$ expressed as a common fraction?

Answer: $\frac{2}{3}$

Unacceptable: $\frac{4}{6}$

Problem: What is $12 \div 8$ expressed as a common fraction?

Answer: $\frac{3}{2}$

Unacceptable: $\frac{12}{8}$, $1\frac{1}{2}$

Problem: What is the sum of the lengths of the radius and the circumference of a circle of diameter $\frac{1}{4}$ unit expressed as a common fraction in terms of π ?

Answer: $\frac{1+2\pi}{8}$

Problem: What is $20 \div 12$ expressed as a mixed number?

Answer: $1\frac{2}{3}$

Unacceptable: $1\frac{8}{12}$, $\frac{5}{3}$

Ratios should be expressed as simplified common fractions unless otherwise specified. Examples:

Acceptable Simplified Forms: $\frac{7}{2}$, $\frac{3}{\pi}$, $\frac{4-\pi}{8}$

Unacceptable: $3\frac{1}{2}$, $\frac{3}{3}$, 3.5, 2:1

Radicals must be simplified. A simplified radical must satisfy: 1) no radicands have a factor which possesses the root indicated by the index; 2) no radicands contain fractions; and 3) no radicals appear in the denominator of a fraction. Numbers with fractional exponents are not in radical form. Examples:

Problem: What is $\sqrt{15} \times \sqrt{5}$ expressed in simplest radical form?

Answer: $5\sqrt{3}$

Unacceptable: $\sqrt{75}$

Answers to problems asking for a response in the form of a dollar amount or an unspecified monetary unit (e.g., "How many dollars...," "How much will it cost...," "What is the amount of interest...") should be expressed in the form (\$) $a.bc$ or $a.bc$ (dollars), where a is an integer and b and c are digits. The only exceptions to this rule are when a is zero, in which case it may be omitted, or when b and c are both zero, in which case they both may be omitted. Answers in the form (\$) $a.bc$ or $a.bc$ (dollars) should be rounded to the nearest cent, unless otherwise specified. Examples:

Acceptable Forms: 2.35, 0.38, .38, 5.00, 5

Unacceptable: 4.9, 8.0

Do not make approximations for numbers (e.g., π , $\frac{2}{3}$, $5\sqrt{3}$) in the data given or in solutions unless the problem says to do so.

Do not do any intermediate rounding (other than the "rounding" a calculator performs) when calculating solutions. All rounding should be done at the end of the calculation process.

Scientific notation should be expressed in the form $a \times 10^n$ where a is a decimal, $1 \leq |a| < 10$, and n is an integer. Examples:

Problem: What is 6895 expressed in scientific notation?

Answer: 6.895×10^3

Problem: What is 40,000 expressed in scientific notation?

Answer: 4×10^4 or 4.0×10^4

An answer expressed to a greater or lesser degree of accuracy than called for in the problem will not be accepted. Whole-number answers should be expressed in their whole-number form. Thus, 25.0 will not be accepted for 25, and 25 will not be accepted for 25.0.

20national Mathcounts Answers

**United States. Congress. House.
Committee on Education and Labor.
Subcommittee on Elementary,
Secondary, and Vocational Education**

20national Mathcounts Answers:

Hearings on Mathematics and Science Education United States. Congress. House. Committee on Education and Labor. Subcommittee on Elementary, Secondary, and Vocational Education, 1983

20national Mathcounts Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**20national Mathcounts Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web dimension maximum deviation from flatness less than 25 inches 1 50 of the dimension 25 inches to 75 inches 1 2 inch maximum over 75 inches 1 150 of the dimension 2 in lieu of the values specified in astm a6 the maximum deviation below the specified depth shall be as follows for depths up to and including 36 inches 1 8 inch

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web the tolerance over specified thickness in the area more than 3 inches in from the longitudinal edges of the plate at the mill produced width shall not exceed twice the tabular tolerance source asme sa480 specification for general requirements

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web astm a6 a6m covers mill requirements for structural steel including dimensional tolerances on the cross section of structural shapes the quality requirements and the type of mill conditioning permitted astm a500 and a53 have sim

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web table 3 tolerance over width and length for sheared edges nominal length l mm tolerances on the width lower upper l
 4000 0 20 4000 l 6000 0 30 6000 l 8000 0 40 8000 l 10000 0 50 10000 l 15000 0 75 4 flatness flatness is measured as the
 maximum deviation from a horizontal flat surface

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web the most common specification for flatness is astm s industry standards for flatness which most companies follow what
 happens if a piece of steel comes out and it s not within the industry standard flatness tolerance well there are a few different
 ways to flatten it out to get within tolerance

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web apr 27 2010 api 650 does refer to a6 for tolerances within a plate see section 7 5 2 the out of plumbness in one shell
 course shall not exceed the permissible variations for flatness and waviness as specified in astm a 6m a 6 astm a 20m a 20 or
 astm a 480m a 480 whichever is applicable that is pretty clear

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web difference the tolerance for all thicknesses and all sizes is 1 16 inch 0625 per 6 inches of width or fraction thereof
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web remarks1 the minus side tolerance on thickness shall be 0 25mm 2 thickness shall be measured at 9 53 to 19 05mm from the longitudinal edge 3 for thickness measured at any location other than that specified in note 2 the permissible maximum over tolerance shall be increased by 75

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web astm a6 sets the acceptable variance for member length straightness camber sweep and cross section properties cross section properties addressed are overall depth and width flange and web thickness and flange out of alignment see table 1