

This version is for Division I Schools

DIVISION I COMPREHENSIVE EXAM
2002
ALABAMA STATE-WIDE MATHEMATICS CONTEST
Construction of this test directed
by
Laurie Edler, Jacksonville State University

INSTRUCTIONS

This test consists of 50 multiple choice questions. For each question, choose the best of the five answer choices labeled A, B, C, D, and E.

The test will be scored as follows: 5 points for each correct answer, 1 point for each question left unanswered, and 0 points for each wrong answer. (Thus a “perfect paper” with all questions answered correctly earns a score of 250, a blank paper earns a score of 50, and a paper with all questions answered incorrectly earns a score of 0.) Random guessing will not, on average, either increase or decrease your score. However, if you can eliminate one or more of the answer choices as wrong, then it is to your advantage to guess among the remaining choices.

The questions have not necessarily been arranged in order of difficulty.

All variables and constants represent real numbers, except when a particular problem indicates otherwise.

We use the following geometric notation:

If A and B are points, then:

\overline{AB} is the segment between A and B

\overleftrightarrow{AB} is the line containing A and B

\overrightarrow{AB} is the ray from A through B

AB is the distance between A and B

If A is an angle, then:

$m\angle A$ is the measure of angle A in degrees

If A and B are points on a circle, then:

\widehat{AB} is the arc between A and B

$m\widehat{AB}$ is the measure of \widehat{AB} in degrees

Diagrams are not necessarily to scale.

This version is for Division II Schools

DIVISION II COMPREHENSIVE EXAM
2002
ALABAMA STATE-WIDE MATHEMATICS CONTEST
Construction of this test directed
by
Laurie Edler, Jacksonville State University

INSTRUCTIONS

This test consists of 50 multiple choice questions. For each question, choose the best of the five answer choices labeled A, B, C, D, and E.

The test will be scored as follows: 5 points for each correct answer, 1 point for each question left unanswered, and 0 points for each wrong answer. (Thus a “perfect paper” with all questions answered correctly earns a score of 250, a blank paper earns a score of 50, and a paper with all questions answered incorrectly earns a score of 0.) Random guessing will not, on average, either increase or decrease your score. However, if you can eliminate one or more of the answer choices as wrong, then it is to your advantage to guess among the remaining choices.

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If A is an angle, then:

$m\angle A$ is the measure of angle A in degrees

If A and B are points on a circle, then:

\widehat{AB} is the arc between A and B

$m\widehat{AB}$ is the measure of \widehat{AB} in degrees

Diagrams are not necessarily to scale.

This version is for Division III Schools

DIVISION III COMPREHENSIVE EXAM

2002

ALABAMA STATE-WIDE MATHEMATICS CONTEST

Construction of this test directed

by

Laurie Edler, Jacksonville State University

INSTRUCTIONS

This test consists of 50 multiple choice questions. For each question, choose the best of the five answer choices labeled A, B, C, D, and E.

The test will be scored as follows: 5 points for each correct answer, 1 point for each question left unanswered, and 0 points for each wrong answer. (Thus a “perfect paper” with all questions answered correctly earns a score of 250, a blank paper earns a score of 50, and a paper with all questions answered incorrectly earns a score of 0.) Random guessing will not, on average, either increase or decrease your score. However, if you can eliminate one or more of the answer choices as wrong, then it is to your advantage to guess among the remaining choices.

The questions have not necessarily been arranged in order of difficulty.

All variables and constants represent real numbers, except when a particular problem indicates otherwise.

We use the following geometric notation:

If A and B are points, then:

\overline{AB} is the segment between A and B

\overleftrightarrow{AB} is the line containing A and B

\overrightarrow{AB} is the ray from A through B

AB is the distance between A and B

If A is an angle, then:

$m\angle A$ is the measure of angle A in degrees

If A and B are points on a circle, then:

\widehat{AB} is the arc between A and B

$m\widehat{AB}$ is the measure of \widehat{AB} in degrees

Diagrams are not necessarily to scale.