

# Geometry Cumulative Study Guide

## Test 6

Name: \_\_\_\_\_

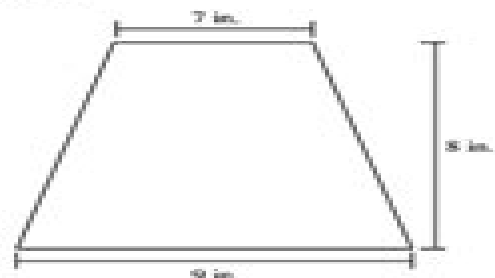
Date: \_\_\_\_\_

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### Numeric Response

1. Find the base of a rectangle, in inches, with an area of 30 square inches and height of 6 inches.

2. Find the area, in square inches, of the trapezoid below.



3. Find the circumference of the circle with radius of 9 feet. Use 3.14 for  $\pi$  and round to the nearest tenth of a foot.

4. Given that  $\overline{AC} \cong \overline{ED}$ , find the area, in square units, of each triangle shown below.

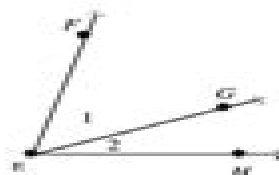


### Problem

5. Identify the property that justifies the statement below.

If  $a = b$ , then  $a + c = b + c$ .

6. Name three rays in the diagram.



7. After several years of gardening, Mary made the observation that every rose she grew had thorns. She made this conjecture: "All roses have thorns." Is this a valid conjecture? How can it be tested? Can it be proven?

8. Determine whether the statement below is true or false. If it is false, explain your reasoning.

If a shape is a quadrilateral, then it is a parallelogram.

9. Find a counterexample to the conjecture below.

If  $x^2 = 64$ , then  $x = 8$ .

10. Identify the hypothesis and conclusion of the statement below. Then, write the negation of each.

*If you break it, then you will have to buy it.*

11. In the right triangle XYZ,  $m\angle X = 44^\circ$  and the right angles is at vertex Z. Find the measure of  $\angle Y$ .

12. Find the value of  $x$  in the triangle below. Give your answer in simplified radical form.



13. Sketch a quadrilateral based on the description below.

In quadrilateral ABCD, each side measures 4 meters.

14. Determine the measure of each exterior angle for a regular triangle.

15. For the following statements, use the Law of Detachment to write a valid concluding statement.

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**J Spring**



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## **Table of Contents E2020 Cumulative Exam Geometry**

1. Understanding the eBook E2020 Cumulative Exam Geometry
  - The Rise of Digital Reading E2020 Cumulative Exam Geometry
  - Advantages of eBooks Over Traditional Books
2. Identifying E2020 Cumulative Exam Geometry
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an E2020 Cumulative Exam Geometry
  - User-Friendly Interface
4. Exploring eBook Recommendations from E2020 Cumulative Exam Geometry
  - Personalized Recommendations
  - E2020 Cumulative Exam Geometry User Reviews and Ratings
  - E2020 Cumulative Exam Geometry and Bestseller Lists
5. Accessing E2020 Cumulative Exam Geometry Free and Paid eBooks
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  - E2020 Cumulative Exam Geometry eBook Subscription Services

- E2020 Cumulative Exam Geometry Budget-Friendly Options
- 6. Navigating E2020 Cumulative Exam Geometry eBook Formats
  - ePub, PDF, MOBI, and More
  - E2020 Cumulative Exam Geometry Compatibility with Devices
  - E2020 Cumulative Exam Geometry Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of E2020 Cumulative Exam Geometry
  - Highlighting and Note-Taking E2020 Cumulative Exam Geometry
  - Interactive Elements E2020 Cumulative Exam Geometry
- 8. Staying Engaged with E2020 Cumulative Exam Geometry
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers E2020 Cumulative Exam Geometry
- 9. Balancing eBooks and Physical Books E2020 Cumulative Exam Geometry
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection E2020 Cumulative Exam Geometry
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine E2020 Cumulative Exam Geometry
  - Setting Reading Goals E2020 Cumulative Exam Geometry
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of E2020 Cumulative Exam Geometry
  - Fact-Checking eBook Content of E2020 Cumulative Exam Geometry
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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