

Lesson 50: Geometry Review and Test

Weekly Focus: geometry
Weekly Skill: review and test

LESSON 50: Geometry Review and Test

Lesson Summary: For the warm up, students will do a matching activity about geometry vocabulary. In Activity 1, they will identify shapes. In Activity 2, they will do word problems for review. In Activity 3, they will take a test. Estimated time for the lesson is 2 hours.

Materials Needed for Lesson 50:

- *Mathematical Reasoning Test Preparation for the 2014 GED Test Student Book (pages 112 – 119)*
- Formula Sheet for the GED Test from:
<http://www.gedtesting.com/uploads/files/0756c16704434ff71e43c8117a5fa738.pdf>
- 1 Worksheet (50.1) with answers (attached)

Objectives: Students will:

- Review vocabulary related to geometry
- Do word problems to review the geometry unit
- Do word problems as a test

ACES Skills Addressed: N, CT, ALS

CCRS Mathematical Practices Addressed: Attend to Precision, Mathematical Fluency

Levels of Knowing Math Addressed: Abstract, Application

Notes:

You can add more examples if you feel students need them before they work. Any ideas that concretely relates to their lives make good examples.

For more practice as a class, feel free to choose some of the easier problems from the worksheets to do together. The “easier” problems are not necessarily at the beginning of each worksheet. Also, you may decide to have students complete only part of the worksheets in class and assign the rest as homework or extra practice.

The GED Math test is 115 minutes long and includes approximately 46 questions. The questions have a focus on quantitative problem solving (45%) and algebraic problem solving (55%).

Students must be able to understand math concepts and apply them to new situations, use logical reasoning to explain their answers, evaluate and further the reasoning of others, represent real world problems algebraically and visually, and manipulate and solve algebraic expressions.

This computer-based test includes questions that may be multiple-choice, fill-in-the-blank, choose from a drop-down menu, or drag-and-drop the response from one place to another.

The purpose of the GED test is to provide students with the skills necessary to either further their education or be ready for the demands of today's careers.

Lesson 50 Warm-up: Vocabulary Match

Time: 10 Minutes

1. Copy the attached vocabulary matching activity for students. Note: all students can

Lesson 50: Geometry Review and Test

- participate, not just the GED-level students.
2. Give students 5 minutes to do the matching.
 3. Project the activity on the board to have volunteers write the answers or have them write the answers on the board.
 4. **Answers:** 1.e, 2.d, 3.j, 4.L, 5.c, 6.h, 7.i, 8.m, 9.o, 10.k, 11.n, 12.b, 13.a, 14.g, 15.f

Lesson 50 Activity 1: Identify the Shapes

Time: 5 Minutes

1. **Worksheet 50.1** projected on the board.
2. Give students a few minutes to think on their own.
3. Do the answers as a whole class.

Lesson 50 Activity 2: Review Problems

Time: 40 Minutes

1. Give students about 30 minutes to do questions 1-28 from pages 112-115 of the **student book** as review.
2. Go over the answers and explain the difficult problems.

Lesson 50 Activity 3: Geometry Test

Time: 55 Minutes

1. Give questions 29-55 on pages 116-119 of the **student book** as a test.
2. Collect the tests and correct them to give back to students next week.

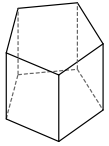
Lesson 50: Geometry Review and Test

Vocabulary	Definition
1. sphere ____	A. distance from center of circle to any point on outside
2. π _____	B. longest side of right triangle
3. polygon ____	C. an example is a box
4. pentagon _____	D. a number that is about 3.14 or $22/7$
5. rectangular prism __	E. an example is a ball
6. square units ____	F. the distance across the middle of a circle
7. cubic units ____	G. the perimeter of a circle
8. triangular pyramid _	H. units to measure area
9. perimeter ____	I. units to measure volume
10. quadrilateral ____	J. closed figure with 3 or more sides
11. right angle ____	K. closed 4-sided figure
12. hypotenuse ____	L. closed 5-sided figure
13. radius ____	M. pyramid with 3 sides
14. circumference ____	N. has 90 degrees
15. diameter ____	o. sum of length of all sides

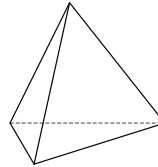
Worksheet 50.1 Identify the Figures

Name each figure.

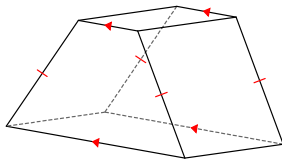
1)



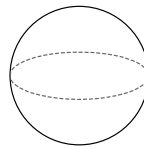
2)



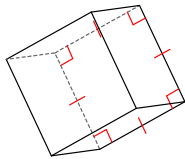
3)



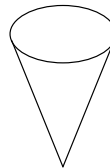
4)



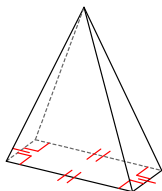
5)



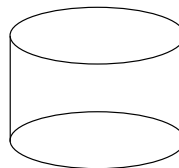
6)



7)

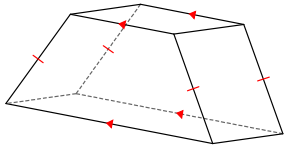


8)

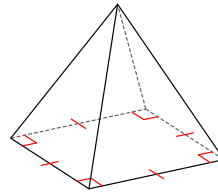


Lesson 50: Geometry Review and Test

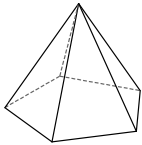
9)



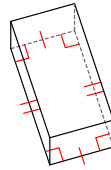
10)



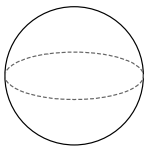
11)



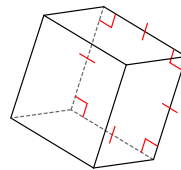
12)



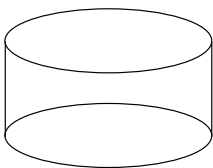
13)



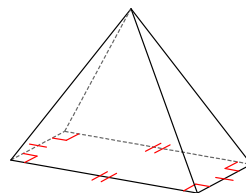
14)



15)



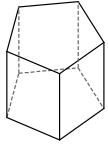
16)



Worksheet 50.1 Answers

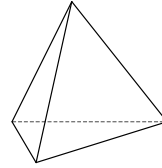
Name each figure.

1)



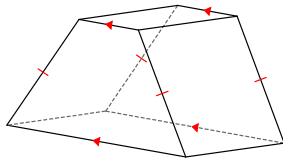
pentagonal prism

2)



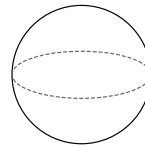
triangular pyramid

3)



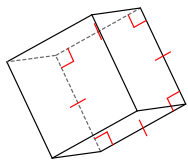
trapezoidal prism

4)



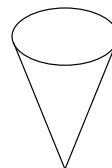
sphere

5)



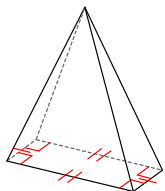
square prism

6)



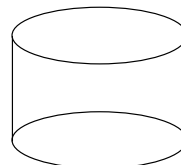
cone

7)



rectangular pyramid

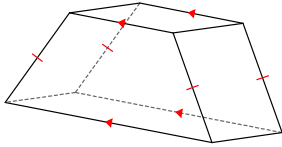
8)



cylinder

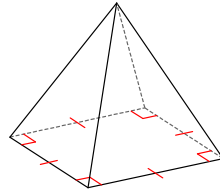
Lesson 50: Geometry Review and Test

9)



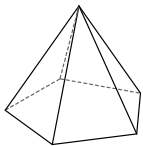
trapezoidal prism

10)



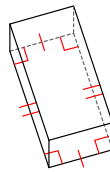
square pyramid

11)



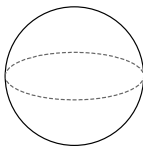
pentagonal pyramid

12)



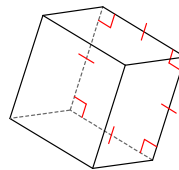
rectangular prism

13)



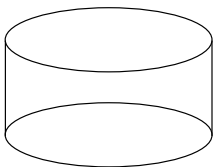
sphere

14)



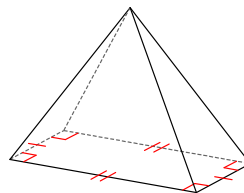
square prism

15)



cylinder

16)



rectangular pyramid