

Chapter 2 | Geometry Language: Points, Lines, Angles, Polygons, and Solids

Worksheet B | Independent Practice

Name: _____ Grade: _____ Date: _____

Warm-up: Worked Examples

Example 1: Point, Line, Segment, or Ray

Problem: Name each object: a path with two endpoints; a path with arrows at both ends; a path with one endpoint and one arrow; a single marked location.

Two endpoints =>	line segment
Arrows both ways =>	line
One endpoint, one arrow =>	ray
One location =>	point

Example 2: Identify the Vertex of an Angle

Problem: Two rays meet at point Q. What is point Q called?

Where rays meet =>	vertex
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Example 3: Decide Whether a Figure Is 2-D or 3-D

Problem: Classify a square tile, a soup can, a pentagon, and a cube.

Flat =>	square tile, pentagon = 2-D
Takes up space =>	soup can, cube = 3-D

Example 4: Identify a Polygon

Problem: Decide whether a hexagon, an oval, an open four-sided figure, and a closed triangle are polygons.

Closed + straight =>	hexagon, triangle = polygons
Curved =>	oval = not a polygon
Not closed =>	open figure = not a polygon
Closed + 3 straight =>	triangle

Example 5: Name a Polygon by Its Sides

Problem: A closed 2-D shape has 10 straight sides. What is its name?

Count sides =>	10 sides
Name =>	decagon

Example 6: Common-Trap Solid Vocabulary

Problem: A student points to a flat rectangular surface of a prism and calls it an edge. Explain the mistake.

Wrong =>	flat surface = edge
Correct =>	flat surface = face

Practice

1. Name the polygon with 3 sides.
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2. A flat surface on a solid is a _____.

3. Classify a square as 2-D or 3-D.

4. Name the polygon with 4 sides.

5. Where two flat faces meet is an _____.

6. Classify a cube as 2-D or 3-D.

7. Name the polygon with 5 sides.

8. One corner of a solid is a _____.

9. Classify a circle as 2-D or 3-D.

10. Name the polygon with 6 sides.

11. More than one corner are called _____.

12. Name the polygon with 7 sides.

13. Classify a sphere as 2-D or 3-D.

14. Name the polygon with 9 sides.

15. Name the polygon with 10 sides.
