

Name: _____

Date: _____

Review: Expressing Geometric Properties, Measurement, and Dimension

Conic Sections and 3D Objects. Identify the item described.

1. _____ Formed by a plane cutting through two cones.
2. _____ Formed by assembling two circles and a curved plane.
3. _____ Formed by taking a diagonal cross-section of a cone.
4. _____ Formed by a combination of squares and rectangles.

Sketch. Draw a net image of the following solids. Find their surface area and volume.

5. Cylinder; $r = 6$; $h = 12$

6. Cube; $s_1 = 5$

Determine whether the following lines are parallel, perpendicular, or neither.

A (0,0) B (5,4) C (0,3) D (5,7)

7. AB and CD

8. AC and AB

Identify the perimeter and area of the following objects.

9. $\triangle ABC$

A (3,6)

B (-1, 3)

C (6, 3)

10. Quadrilateral LMNO

L (0, 6)

M (0, 0)

N (3, 0)

O (3, 6)

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Answer Key

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1. Hyperbola
2. Cylinder
3. Ellipse
4. Prism
5. $S = 678.68$; $V = 2356.48$
6. $S = 150$; $V = 125$
7. parallel
8. neither
9. $P = 9 + 3\sqrt{2}$; $A = 10$
10. $P = 18$; $A = 18$