



Geometry

Workbook

Table of Contents

To the Studentvii

Unit 1: Lines and Triangles

Activity 1	
Dimensions	1
Activity 2	
Parallel Lines	2
Activity 3	
Measuring Line Segments	3
Activity 4	
Constructing Congruent Line Segments	
Using a Compass	4
Activity 5	
Constructing Congruent Line Segments	
Using a Safe-Drawing Compass	5
Activity 6	
Angles, Angles Everywhere!	6
Activity 7	
Acute, Obtuse, and Straight Angles	7
Activity 8	
Measuring Angles	8
Activity 9	
Constructing Perpendicular Lines	9
Activity 10	
Using Equations to Find Complements	10
Activity 11	
Using Equations to Find Supplements	11
Activity 12	
Complementary and Supplementary Angles ..	12
Activity 13	
Drawing Angles	13
Activity 14	
Angle Diagram	14
Activity 15	
Vertical and Adjacent Angles	15
Activity 16	
Constructing Parallel Lines	16
Activity 17	
Street Angles	17

Activity 18	
Drawing Transversals	18
Activity 19	
Regular and Irregular Polygons	19
Activity 20	
More Polygons	20
Activity 21	
Quadrilaterals	21
Activity 22	
Acute and Obtuse Triangles	22
Activity 23	
The Sum of the Angles of a Triangle	23
Activity 24	
The Sum of the Angles in a Quadrilateral	24
Activity 25	
Exponents	25
Activity 26	
Squares and Square Roots	26
Activity 27	
Drawing the Pythagorean Theorem	27
Activity 28	
Pythagoras	28

Unit 2: Perimeter, Circumference, and Area

Activity 29	
Using Formulas to Find the Perimeter	
of Rectangles and Squares	29
Activity 30	
Perimeter of Regular Polygons	30
Activity 31	
Area and Blueprints	31
Activity 32	
Relating Area and Perimeter	32
Activity 33	
Finding the Area of a Parallelogram I	33
Activity 34	
Finding the Area of a Parallelogram II	34

Table of Contents, *continued*

Activity 35	
Finding the Area of a Triangle	35
Activity 36	
Finding the Area of a Trapezoid	36
Activity 37	
Finding the Area of a Complex Figure	37
Activity 38	
Drawing Circles	38
Activity 39	
Radii, Circumference, and Arcs I	39
Activity 40	
Radii, Circumference, and Arcs II	40
Activity 41	
Central Angles	41
Activity 42	
Using Equations to Find Central Angles	42
Activity 43	
Central Angles and Fractions	43
Activity 44	
More about $Pi (\pi)$	44
Activity 45	
Perimeter of Complex Figures	45
Activity 46	
Percents	46
Activity 47	
Making Circle Graphs	47
Activity 48	
Area of a Circle	48
Activity 49	
Using Radius or Diameter to Find the Area of a Circle	49
Activity 50	
Area of Complex Figures	50
Activity 51	
Changing Formulas	51
Activity 52	
Using Formulas	52

Activity 53	
Algebra, Formulas, and Circles	53
Activity 54	
Using the Area and Circumference Formulas	54
Activity 55	
Word Problems with Perimeter, Circumference, and Area	55

Unit 3: Volume

Activity 56	
Space Figures	56
Activity 57	
Polyhedra	57
Activity 58	
Platonic Solids	58
Activity 59	
Finding Volume	59
Activity 60	
Finding the Volume of Rectangular Prisms and Cubes	60
Activity 61	
Finding the Volume of Prisms	61
Activity 62	
Visualizing the Volume of a Cylinder	62
Activity 63	
Nets	63
Activity 64	
Finding the Volume of Cones and Pyramids	64
Activity 65	
Finding the Volume of Space Figures	65
Activity 66	
Surface Area of Rectangular Prisms	66
Activity 67	
Surface Area of Cylinders	67
Activity 68	
Word Problems with Volume	68

Table of Contents, *continued*

Unit 4: Coordinate Geometry

Activity 69	
Fractions on the Number Line	69
Activity 70	
Property of Density	70
Activity 71	
Graphing the Solution to an Equation or an Inequality on the Number Line	71
Activity 72	
Drawing the Coordinate Plane	72
Activity 73	
The Coordinate Plane	73
Activity 74	
Graphing on the Four Quadrants of the Coordinate Plane	74
Activity 75	
Graphing Game	75
Activity 76	
Transformations on the Coordinate Plane . . .	76
Activity 77	
Functions	77
Activity 78	
Linear Equations	78
Activity 79	
Using Intercepts to Graph Linear Equations	79
Activity 80	
Graphing Nonlinear Equations	80
Activity 81	
Functions and Measurement	81
Activity 82	
Graphing Inequalities	82
Activity 83	
Slope I	83
Activity 84	
Slope II	84

Activity 85	
The Slope-Intercept Form of an Equation of a Line	85
Activity 86	
Graphing a Line Using the Slope- Intercept Form of an Equation	86
Activity 87	
Slope and Parallel and Perpendicular Lines	87
Activity 88	
Systems of Equations	88
Activity 89	
Graphing Equations and Inequalities to Solve Word Problems	89

NAME: _____



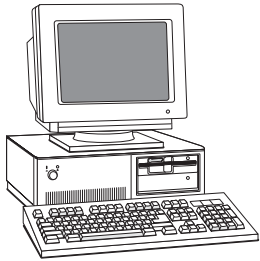
UNIT 1 • ACTIVITY 1

Dimensions

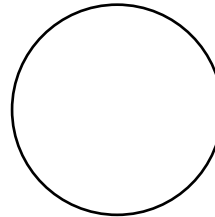
A dimension is a measure of length, width, or height. Plane figures, such as rectangles and squares, have width and length. They are two-dimensional. Objects, such as your classroom, a car, or a table, have length, width, and height. They are three-dimensional.

Look at each picture below. Decide if the object that is pictured has two dimensions or three dimensions. Write *two-dimensional* or *three-dimensional* on the line below each picture.

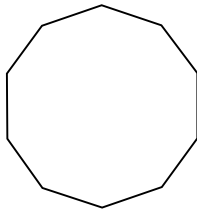
1.



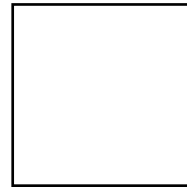
2.



3.



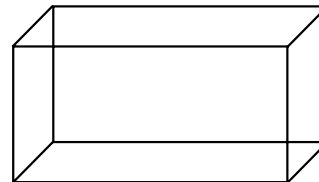
4.



5.



6.



List three other things that are three-dimensional. Then list three other things that are two-dimensional.

7.





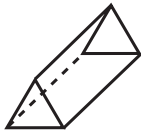
UNIT 3 • ACTIVITY 56

Space Figures

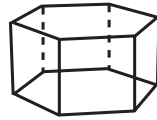
A space figure is a figure with three dimensions: length, width, and height. Space figures are also called solid figures and three-dimensional figures. A polyhedron (plural *polyhedra*) is a space figure that is made up of polygons. You have learned about the polyhedron that is made up of rectangles. This figure is called a rectangular prism. Polyhedra are named for the shape of their bases. There are many space figures. Look at the chart below.

Prisms

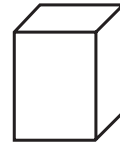
A **prism** is a polyhedron that has two congruent and parallel bases and rectangular faces.



Triangular Prism



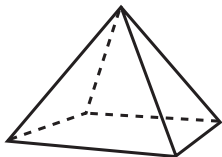
Hexagonal Prism



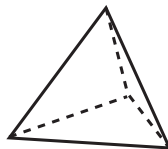
Rectangular Prism

Pyramids

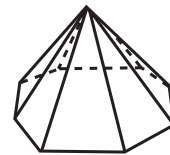
A **pyramid** is a polyhedron that has a base that is a polygon and other faces that are triangles that share a common vertex.



Rectangular Pyramid



Triangular Pyramid



Octagonal Pyramid

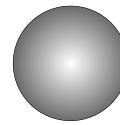
Other space figures are **not polyhedra** because they have curved sides.



Cylinder



Cone



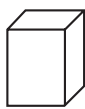
Sphere

Write the name of each figure on the line.

1.



2.



3.



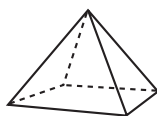
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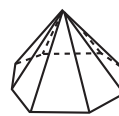
5.



6.



7.



8.

