

Table of Contents

Introduction to Polygons and their Properties

Geoboard Letter Polygons	1
Geoboard Numeral Polygons	2
Parallel Lines	3
Perpendicular Lines	4
Constructing Polygons	5
Building Polygons with Parallel and Perpendicular Sides	6
Building Polygons with Given Lengths	7
Building Polygons with Given Lengths	8
Tic Tac Toe Using Ordered Pairs of Whole Numbers	9
Playing Tic Tac Toe	10
Plotting Ordered Pairs	11
Writing Ordered Pairs	12
Classifying Triangles by their Sides	13
Classifying Triangles by their Angles	14
Classifying Quadrilaterals	15
Classifying Quadrilaterals	16
Congruent Polygons	17
Symmetry	18

Fractions, Decimals, and Percents

Dividing a Geoboard into Equal Parts	19
Building and Shading Fractions	20
Equivalent Fractions	21
Equivalent Fractions	22
Addition of Fractions	23
Subtraction of Fractions	24
Multiplication of Fractions	25
Division of Fractions	26
Naming Percents	27
Naming Percents	28
More Percent	29
More Percent	30

Area of Polygons

Area of Rectangles	31
Area of Larger Rectangles	32
Area of Right Triangles	33
Area of Right Triangles	34
Area of Polygons Using Chop Strategy	35
Area of Polygons	36
Area of Familiar Figures	37
Area of Geoboard Numerals	38
Alphabet Area, A-I	39
Alphabet Area, J-R	40
Alphabet Area, S-Z	41

Area of Squares – Square Hunt	42
Area – Fish, Birds, Animals, and Objects	43
Area – Fish, Birds, Animals, and Objects	44
Finding Dimensions Using Area	45
Metric Length and Perimeter of Polygons	
Lengths of Segments in Metric	46
Measuring Lengths of Segments	47
Measuring Lengths of Segments	48
Perimeter of Polygons	49
Perimeter of Polygons	50
Perimeter of Polygons	51
Perimeter of Geoboard Numerals	52
Alphabet Perimeter, A-I	53
Alphabet Perimeter, J-R	54
Alphabet Perimeter, S-Z	55
Angle Measure	
Estimating and Measuring Angles	56
Estimating and Measuring Angles	57
Measuring Angles of a Triangle	58
The Angle Sum of a Triangle	59
Measuring Angles of a Quadrilateral	60
Measuring Angles of Polygons	61
Measuring Angles of Polygons (continued)	62
More Prediction Problems	
Diagonals of a Polygon	63
Dividing a Geoboard into Regions	64
Masters for Teachers	
Metric Geoboard Template	65
Geoboard Grids	66
Geoboard Dot Paper	67
Quizzes	
Quiz: Area of Polygons	68
Quiz: Area of Polygons (continued)	69
Quiz: Perimeter of Polygons	70
Quiz: Perimeter of Polygons (continued)	71
Quiz: Perimeter of Polygons (continued)	72
Answers and Commentary	73