SUPPORT MASTERS

The Pathways section of this binder refers to Support Masters that can be used to create transparencies and student pages to enhance the lessons. You may find the remaining Support Masters useful in creating your own tests, quizzes, student record sheets, transparencies, or worksheets.

- 1.2 Perimeter of Polyominoes. A chart for #1 and a grid for #10.
- 1.A Graphing Rectangle Areas. A chart and grid for #3-6.
- 2.5 Powers. Charts for #1 and 8.
- 2.8 Time, Distance, Speed. Five enlarged function diagrams.
- 2.9 **Operations and Function Diagrams: Addition.** Six functions of the form y = x + b to chart and diagram.
- 2.9 **Operations and Function Diagrams:** Multiplication. Six functions of the form y = mx to chart and diagram.
- **2.10 Perimeter Functions.** Charts for #1-6.
- 2.12 Geoboard Triangles. A two-page summary worksheet on finding the areas of geoboard triangles.
- 3.8 A Hot Day: Comparing Temperature Scales. A grid for #5-10.
- 4.1 A 100-Mile Trip. Grids for #4-12.
- 4.3 **Polynomial Functions: Order of Operations.** Tables and grids for #2-6.
- Polynomial functions: Degree. 4.3 Coordinate axes for #8-11.
- Jarring Discoveries. Charts and grids 4.8 for #2.

- **4.10** Up in the Air. Enlarged graphs for #1-11.
- 5.5 Graphing Parabolas. Recording sheet for #7-10.
- Square Windows. A chart for #3 and a 7.2 grid for #5.
- 7.3 Squares of Sums. Recording sheet for #2-7.
- 9.11 Let's Eat!:Pizza Prices. Charts for #4.
- 10.2 How Much of Each Kind? Charts for #2, 6, and 11.
- 11.5 Dice Games. Charts for #2 and 11.
- 12.2 The Median-Median Line. An enlarged graph of highway versus city mileage.
- Paper HomeWork Gear. Four copies, cut apart, make a set of Lab Gear. Reduce this page to use as clip art.

Geoboard Dot Paper

Algebra Lab Gear Clip Art: 3-D Blocks

Algebra Lab Gear Clip Art: Workmats and **Corner Pieces**

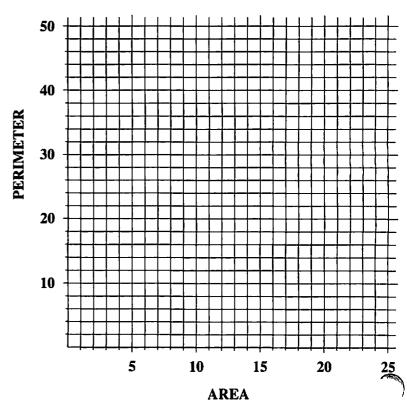
Algebra Lab Gear Workmat

PERIMETER OF POLYOMINOES

1.

Area	Shortest Perimeter	Longest Perimeter
1	4	4
2	6	6
3		
4	8	10
5		
6		
7	_	
8		
9		
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24		

10.



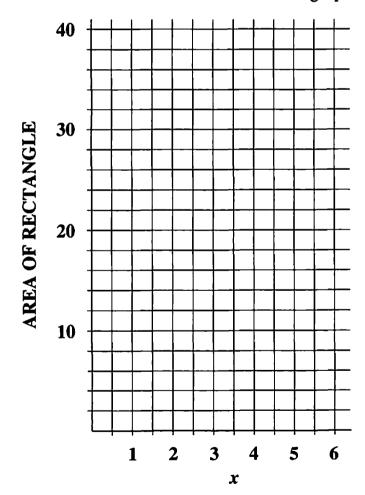
GRAPHING RECTANGLE AREAS

3.

Area of Rectangle Having Dimensions:

$\int x$	1 by <i>x</i>	2 by <i>x</i>	3 by <i>x</i>	x by x
1	1	2	3	1
2		_		
3				
4				
5				
6				

4, 5, 6. Use a different color for each of the graphs.



Powers

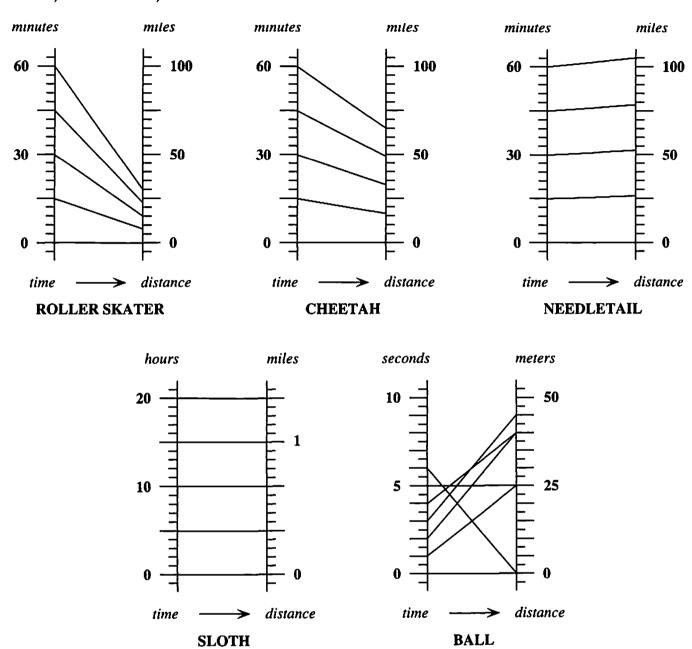
1.

Day#	Cents	Total
1	1	1
2	2	3
3	4	7
4		
5		
6		
7		
8		
9		
10		

8.

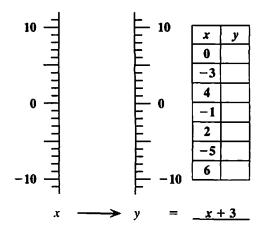
Week #	Letters received this week	Total number received so far
1	5	5
2	25	30
3		
4		
5		
6		-
7		
8		
9		
10		

TIME, DISTANCE, SPEED

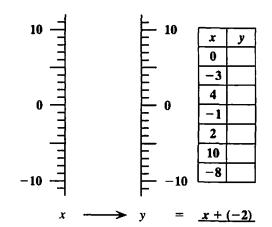


OPERATIONS AND FUNCTION DIAGRAMS: ADDITION

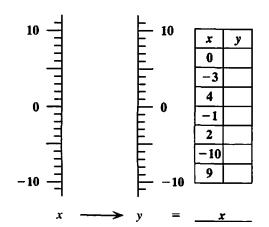
The function rules shown below are all of the form y = x + b, and are helpful in answering problems 1-4. Complete the input-output table for each function rule given. Then draw the function diagram.



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3	E	2
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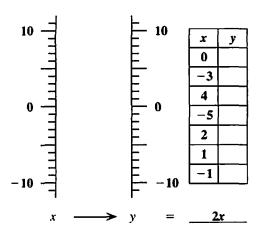
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Lesson 2.9 (continued)

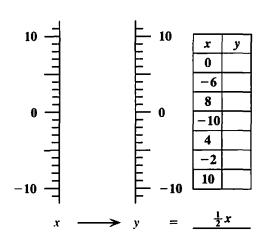
Name ______

OPERATIONS AND FUNCTION DIAGRAMS: MULTIPLICATION

The function rules shown below are all of the form y = mx, and are helpful in answering problems 5–9. Complete the input-output table for each function rule given. Then draw the function diagram.



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x	\longrightarrow	y	=	$\frac{1}{3}$	<u>x</u>

PERIMETER FUNCTIONS

1.

Fig. #	Perimeter
1	4
2	6
3	8
4	
10	
100	
n	

2.

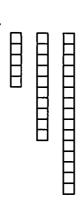


Fig. #	Perimeter
1	
2	
3	
4	
10	
100	
n	

3.

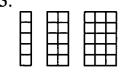


Fig. #	Perimeter
1	
2	
3	
4	
10	
100	
n	

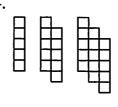


Fig. #	Perimeter
1	
2	
3	
4	
10	
100	
n	

5.

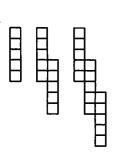


Fig. #	Perimeter
1	
2	
3	
4	
10	
100	
n	

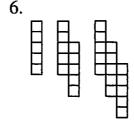
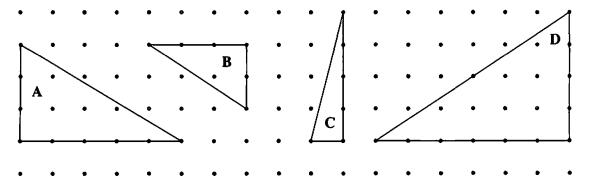


Fig. #	Perimeter
1	
2	
3	
4	
10	
100	
n	

GEOBOARD TRIANGLES

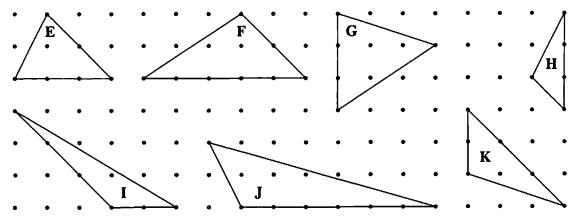
Find the area of each of the geoboard triangles. Then describe your method for finding the area.

1. Triangles with one vertical side and one horizontal side:



My method for finding the area of this type of triangle is:

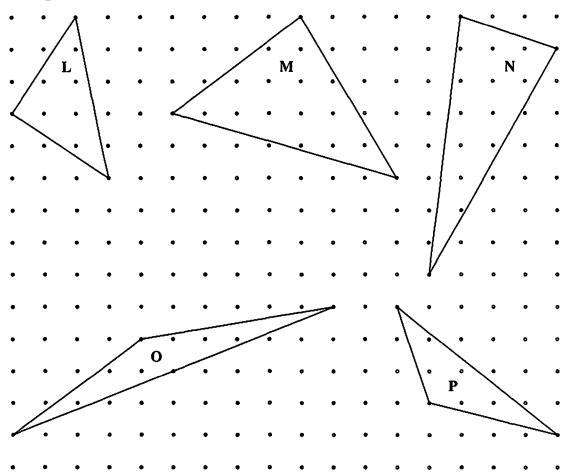
2. Triangles with only one side vertical or horizontal:



My method for finding the area of this type of triangle is:

GEOBOARD TRIANGLES

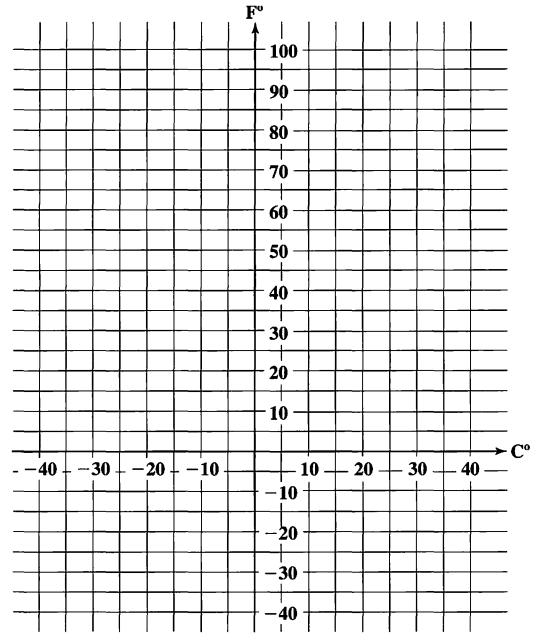
3. Triangles with no horizontal or vertical sides:



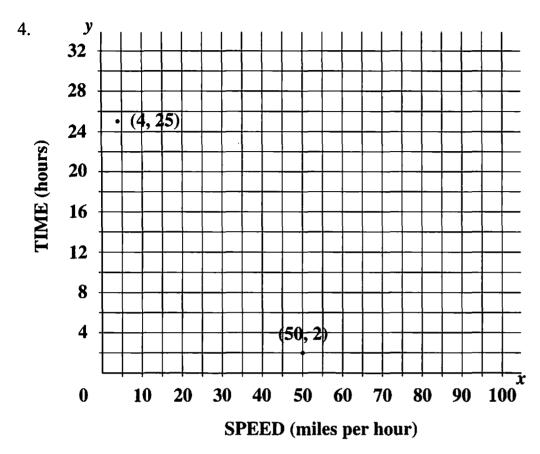
My method for finding the area of this type of triangle is:

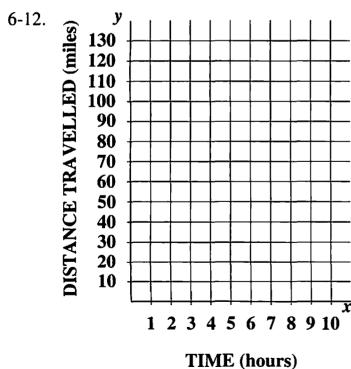
A HOT DAY: COMPARING TEMPERATURE SCALES





A 100-MILE TRIP

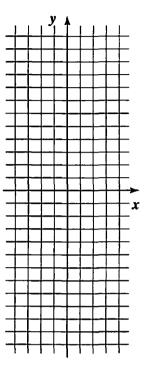




POLYNOMIAL FUNCTIONS: ORDER OF OPERATIONS

2-6. Complete each table. Draw the graph of the function.

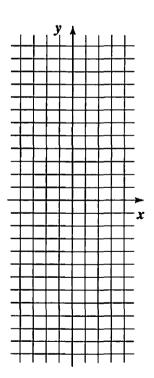
y =	x ²
x	у
-3.5	
-3	
-2	
-1	
-0.5	
0	
0.5	
1	
2	
3	
3.5	



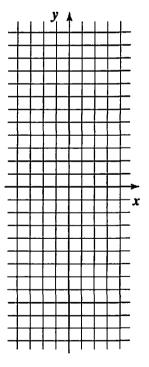
	y =	$-x^2$
	x	у
	-3.5	
	-3	
	-2	
	-1	
İ	-0.5	
	0	
	0.5	
	1	
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y =	- x ³
x	y
$\overline{-2.3}$	
-2	
-1.5	
-1	
-0.5	
0	
0.5	
1	
1.5	
2	
2.3	



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Lesson 4.3 (continued)

POLYNOMIAL FUNCTIONS: DEGREE

8-11. Sketch the graph of each function.

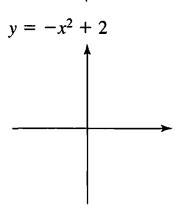
$$y = 2x^3$$

$$y = x^3 + 1$$

$$y = -x^3 - 2$$

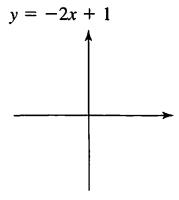
$$y = x^2 - 1$$

$$y = -3x^2$$



$$y = 5x$$

$$y = x$$



$$y = 4$$

$$y = -3$$

$$y = 0$$

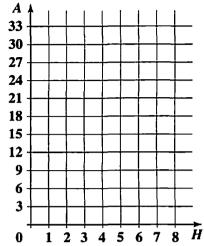
JARRING DISCOVERIES

2b.

		A 4							
H	A	18	`						
1		16 -							
2		14 -				↓_			
3		12 -		-		-	-		
4		10 -	\dashv	+		-	╁		
5		8 -		+		+	\vdash		
6		6 - 4 -	1			1			
7		2							
8		_	_ _	\perp		Ц_	<u> </u>		_
		0	1	2 3	3 4	5	6	7 8	3

c.

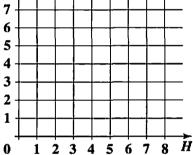
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e.

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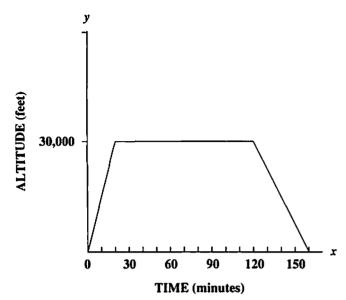
H	A
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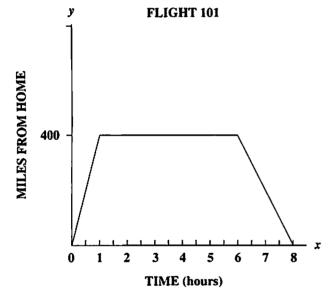
H	A
1	
2	
3	
4	
5	
6	
7	
8	

UP IN THE AIR

1-4.



5-8.



9-11.

