

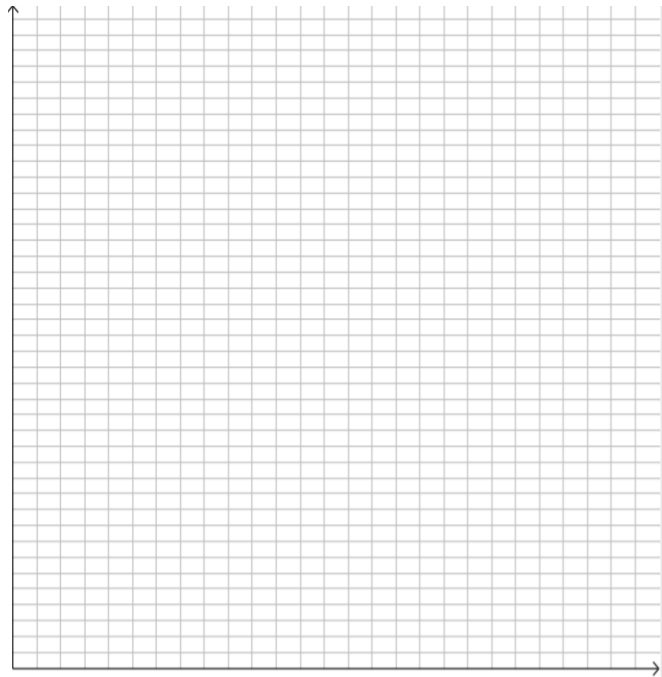
First, Last Name _____ Core: 1 2 3 4 Date:

Lesson1 Squares: Modeling Proportional Relationships

Part A: Perimeter and Side Length of Squares

1. Measure(cm) the side length of each square (G-H) on handout 1.
2. Record the side length of each square in the second column of the table below.
3. Use the formula for perimeter $p = 4s$ to complete the table.
4. Write the side lengths and perimeters as coordinate pairs. (s,p)
5. Graph the Data.

	s	p	(s,p)
G			
C			
D			
A			
I			
E			
B			
F			
H			



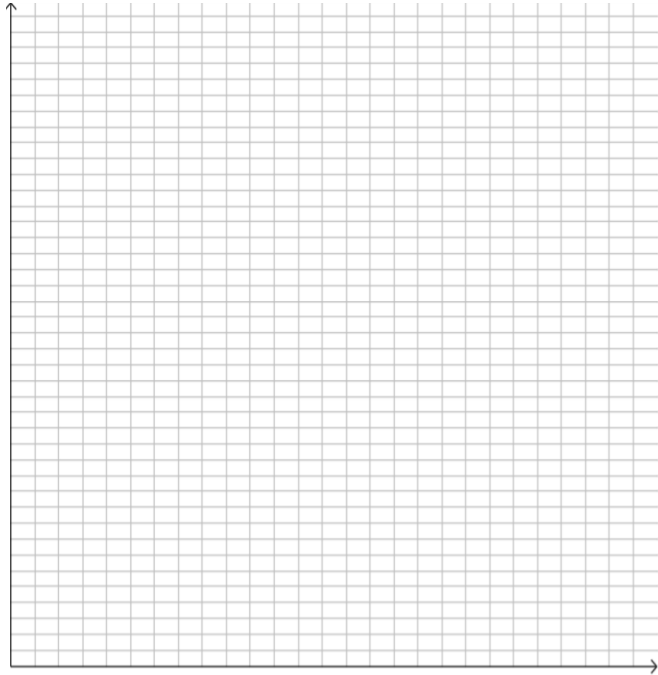
6. Is the perimeter of a square proportional to its side length? Explain.

7. If the perimeter of a square is proportional to its side length, what is the constant of proportionality? Explain.

Part B: Area and Side Length of a Square.

1. Copy the side lengths from the first table below
2. Use the equation $a = s^2$ to complete the table.
3. Write the side lengths and areas as coordinate pairs. (s, a)
4. Graph the Data.

	s	a	(s, a)
G			
C			
D			
A			
I			
E			
B			
F			
H			



5. Is the area of a square proportional to its side length? Explain.

6. If the area of a square is proportional to its side length, what is the constant of proportionality? Explain.
