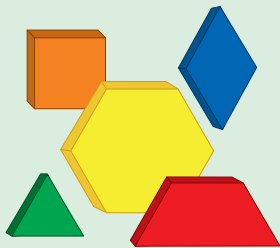


Patterns All Around

An activity for 1 person

Materials



Pattern Blocks

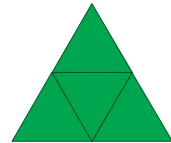
What to Do

1. Use 1 . Assume the side length is 1 unit. Find the perimeter (distance around).



perimeter = 3 units

2. Build a larger equilateral triangle in which each side is 2 units (or double the original triangle). Find its perimeter.



3. Build an even larger equilateral triangle in which each side is 3 units (or triple the original triangle). Find its perimeter.

Show Your Work

4. Record the results in a table.

Side Length (in units)	Perimeter (in units)
1	3

5. Extend the table to include side lengths of 4 units, 5 units, and 6 units.

6. Use 1 orange square. Assume the side length is 1 unit. Find the perimeter (distance around).



perimeter = 4 units

7. Build a larger square whose sides are double the length of the original square. Then build another square whose sides are triple the length of the original square. Find the perimeter of each square.

8. Record the results in a table.

Side Length (in units)	Perimeter (in units)
1	4

9. Extend the table to include side lengths of 4 units, 5 units, and 6 units.

Study the two tables. What happens to the perimeter of a figure if its dimensions are doubled? Tripled? Explain. Describe other patterns you see in the table.



Skill Practice

Follow the pattern to complete the table. Then describe how the perimeter changes for each new figure.

1.

Figure 1



Figure 2



Figure 3



Figure	Perimeter
1	
2	
3	
4	
5	

2.

Figure 1



Figure 2



Figure 3



Figure	Perimeter
1	
2	
3	
4	
5	

3.

Figure 1



Figure 2

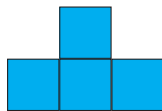


Figure 3

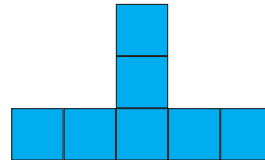


Figure	Perimeter
1	
2	
3	
4	
5	

4.

Figure 1

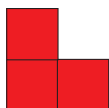


Figure 2

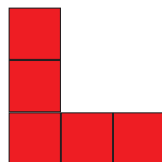


Figure 3

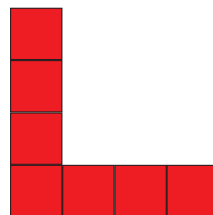


Figure	Perimeter
1	
2	
3	
4	
5	