Name: _____   Date: _____

Unit Problem: Geometry

Knowledge (K) - Information, facts, and acquisition of skills Application (A) - The use of knowledge and skills for practical application, inquiry, and problem solving Communication (C) - The ability to develop and explore ideas and express what has been learned	K	A	C
SO4: Describe and construct right rectangular and right triangular prisms			
SO5: Demonstrate an understanding of congruency, concretely and pictorially			

SO6: Demonstrate an understanding of line symmetry by:
   • identifying symmetrical 2-D shapes
   • creating symmetrical 2-D shapes
   • drawing one or more lines of symmetry in a 2-D shape			

Part A
Draw and label a shape that has line symmetry.

Part B
Exemplar:
How many different rectangular prisms can you build with 24 Connecting Cubes?

1. *What do you know?*
   There are 24 cubes.
   The cubes are used to build a rectangular prism.

2. *Think of a strategy to help you solve the problem.*
   You can **work backward**.
   You know how many cubes you need. Use the cubes to make different rectangular prisms.

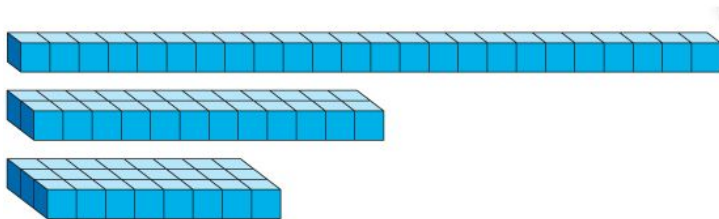3. *Use your strategy to work through the problem.*
   Start with a prism that is 1 cube high.
   How many different prisms can you build?
   Then try to build different prisms that are 2 cubes high, 3 cubes high, and so on.
   How many different rectangular prisms did you make?
   Record each prism that you made.

Now you try!

A rectangular prisms is made with 9 Connecting Cubes.
How many different prisms can be made with these cubes?
Suppose the number of cubes were doubled.
How many different prisms can be made now?