

Poly Doodles



Doodle clues



Polygons

(Square) Make a closed shape that is made from four line segments that are all the same length. Sides touch at four different points to form vertices, and each vertex forms a right angle.

(Triangle) Make a closed shape that has three line segments. Sides touch at three different points to form vertices. Each vertex creates an angle.

(Rectangle) Make a closed shape that is made from four line segments with each pair of opposite segments being the same length. Sides touch at four different points to form vertices, and each vertex forms a right angle.

Polyhedrons

(Cube) Make a solid figure that has six faces. Each face is a polygon, which has line segments of equal length. Faces join to make edges, and the figure can be measured for height, length, and depth.

(Pyramid) This figure can be measured for height, length, and depth. Faces join to make edges. It has three faces. Each face is a three-sided polygon and they all share a vertex. This figure has a square base.

(Rectangular Solid) This figure has edges every place two of its six faces meet. Each face is a polygon. Each face has opposite line segments that are the same length. It can be measured for height, length, and depth.

Poly Doodles All Day

Directions

- Transfer the shape from the geoboard to the dot paper with a pencil
- Answer the questions with a pencil
- Color-code the parts of each shape

Trace sides **GREEN**

Trace vertices **BLUE**

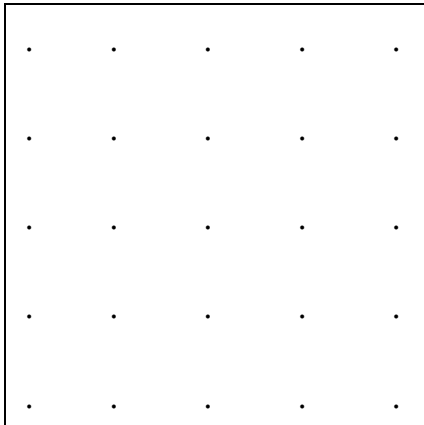
Color inside right angles with **ORANGE**

Color inside other angles with **YELLOW**

Color the surface **RED**



1

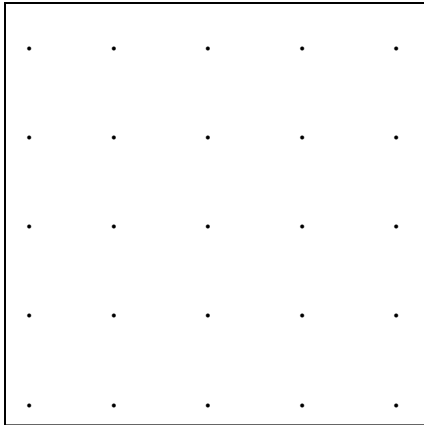


What is my name? _____ Why? _____

What am I? _____ Why? _____

What dimension do I live in? _____ Why? _____

2

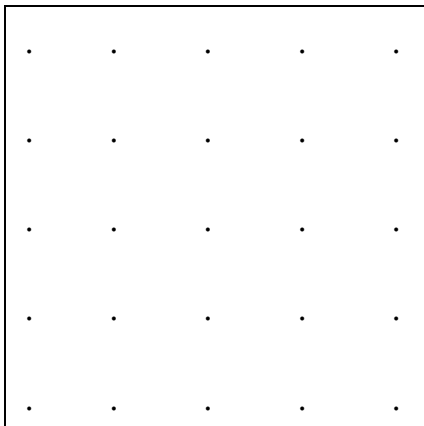


What is my name? _____ Why? _____

What am I? _____ Why? _____

What dimension do I live in? _____ Why? _____

3



What is my name? _____ Why? _____

What am I? _____ Why? _____

What dimension do I live in? _____ Why? _____

Poly Doodles All Day

Directions

- Transfer the shape from the geoboard to the dot paper with a pencil
- Answer the questions with a pencil
- Color-code the parts of each shape

Trace edges **GREEN**

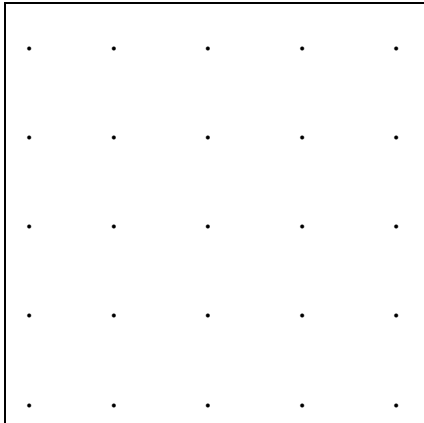
Trace vertices **BLUE**

Color inside angles **ORANGE**

Color one face **YELLOW**



4

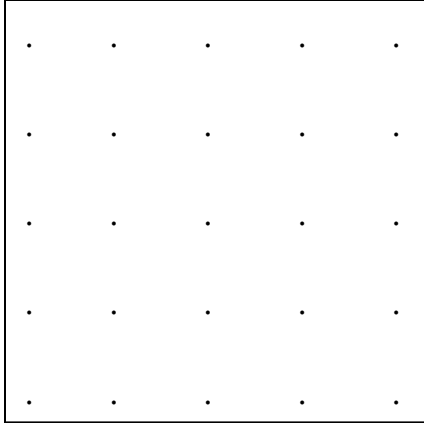


What is my name? _____ Why? _____

What am I? _____ Why? _____

What dimension do I live in? _____ Why? _____

5

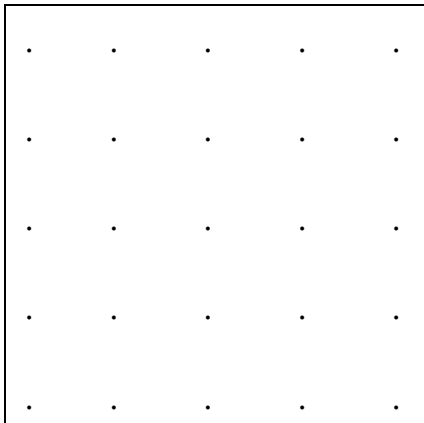


What is my name? _____ Why? _____

What am I? _____ Why? _____

What dimension do I live in? _____ Why? _____

6



What is my name? _____ Why? _____

What am I? _____ Why? _____

What dimension do I live in? _____ Why? _____

Poly Doodles All Day

Directions

- Transfer the shape from the geoboard to the dot paper with a pencil
- Answer the questions with a pencil
- Color-code the parts of each shape

Trace sides **GREEN**

Trace vertices **BLUE**

Color inside right angles with **ORANGE**

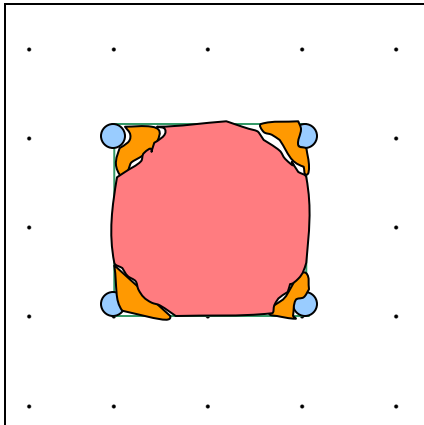
Color inside other angles with **YELLOW**

Color the surface **RED**



ANSWER KEY

1

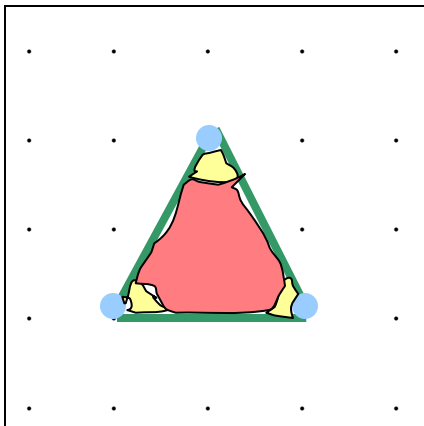


What is my name? *Square* Why? *I have four sides that are the same length, four right angles, and one surface.*

What am I? *Polygon* Why? *I am a closed figure made by three or more line segments.*

What dimension do I live in? *Two-dimensional space* Why? *I have sides, one surface, and I can only be measured in two directions, height and length.*

2

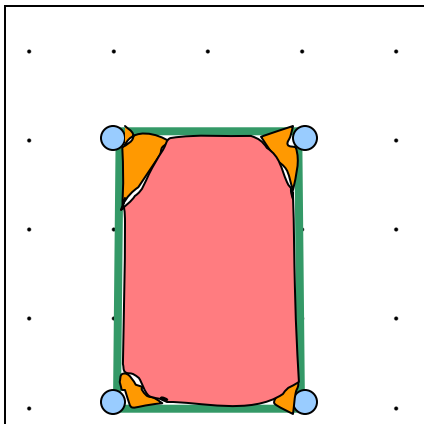


What is my name? *Triangle* Why? *I have three sides and three angles.*

What am I? *Polygon* Why? *I am a closed figure made by three or more line segments.*

What dimension do I live in? *Two-dimensional space* Why? *I have sides, one surface, and I can only be measured in two directions, height and length.*

3



What is my name? *Rectangle* Why? *I have four sides with opposite sides the same, four right angles, and one surface.*

What am I? *Polygon* Why? *I am a closed figure made by three or more line segments.*

What dimension do I live in? *Two-dimensional space* Why? *I have sides, one surface, and I can only be measured in two directions, height and length.*

Poly Doodles All Day

Directions

- Transfer the shape from the geoboard to the dot paper with a pencil
- Answer the questions with a pencil
- Color-code the parts of each shape

Trace edges **GREEN**

Trace vertices **BLUE**

Color inside angles **ORANGE**

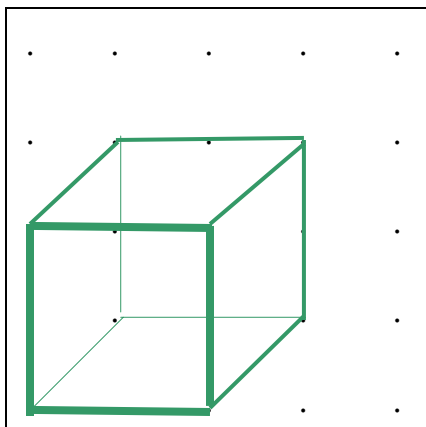
Color one face **YELLOW**

KEY

Color-coding has not been done here. For example see #1 - #3.)



4

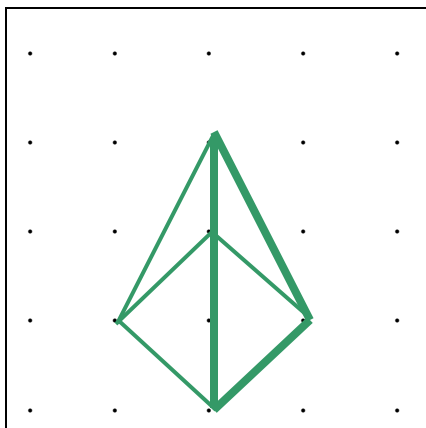


What is my name? *Cube* Why? *I am a solid figure and all of my faces are squares.*

What am I? *Polyhedron* Why? *I am a solid figure with flat faces that are polygons.*

What dimension do I live in? *Three-dimensional space* Why? *I have edges, faces, and I can be measured in three directions, height, length, and depth. I am solid.*

5

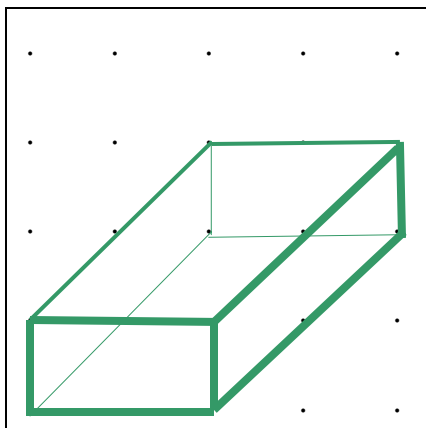


What is my name? *Pyramid* Why? *I have a base that is a square, and three or more faces that are triangles with a common vertex.*

What am I? *Polyhedron* Why? *I am a solid figure with flat faces that are polygons.*

What dimension do I live in? *Three-dimensional space* Why? *I have edges, faces, and I can be measured in three directions, height, length, and depth. I am a solid.*

6



What is my name? *Rectangular solid* Why? *Each of my faces is a rectangle. I am solid.*

What am I? *Polyhedron* Why? *I am a solid figure with flat faces that are polygons.*

What dimension do I live in? *Three-dimensional space* Why? *I have edges, faces, and I can be measured in three directions, height, length, and depth. I am solid.*