

Monday Topic: Rotational Symmetry of a Parallelogram

Big Idea: Shapes can be rotated around a point and still look the same. The number of times this happens in one full turn is called the order of rotational symmetry.



Mild

Look carefully at the parallelogram.



Does this shape have rotational symmetry?

Circle Yes or No and explain what makes you think so.



Medium

Imagine rotating the parallelogram around its center.



How many times does it look the same during one full rotation (360°)?

Write the order of rotational symmetry and explain how you know.



Spicy

Compare the parallelogram to a rectangle and a rhombus.



How is the rotational symmetry of the parallelogram different from these shapes?

Describe which properties (angles, sides, or diagonals) influence the order of rotational symmetry.

Tuesday Topic: Comparing Quadrilaterals

Big Idea: Quadrilaterals can share some geometric properties while differing in others, such as side lengths, angles, and parallel lines.



Mild

Look carefully at the two shapes.



How are they the same?



How are they different?

Think about side lengths and angles.



Medium

Use math vocabulary to compare the blue rectangle and green parallelogram.



How many pairs of parallel sides does each shape have?



How do the interior angles compare?

Write two similarities and two differences.



Spicy

A student says, “A parallelogram is just a stretched-out square.”



Do you agree or disagree?

Use geometric properties—like side length, parallel lines, and angle measure—to explain your thinking.

If possible, include a diagram or example to prove your reasoning.

Wednesday Topic: Top, Front, and Side Views of 3D Objects

Big Idea: 3D objects can be represented and identified by their 2D views from different perspectives.



Mild

Look at a cube.

➡ What shape would you see from the top, front, and side?

Draw or describe each view.



Medium

A rectangular prism has dimensions 2 blocks wide, 3 blocks tall, and 4 blocks long.

➡ Sketch or describe what the top, front, and side views would look like.

Which two views are the same? Why?



Spicy

Two students build different 3D shapes that have the same top view.

➡ Explain how this is possible.

Design (or describe) two different solids that share the same top view but look different from the front and side.

Thursday Topic: Identifying 3D Objects from Top, Front, and Side Views

Big Idea: 3D structures can be represented and understood using 2D views from different perspectives.



Mild

Look carefully at the cube structure.



How many cubes are there in total?



What shape would you see if you looked straight down from the top?



Medium

Imagine viewing the structure from the front and side.



How many cubes would be visible from each view?



Sketch or describe what you think the front and side views would look like.



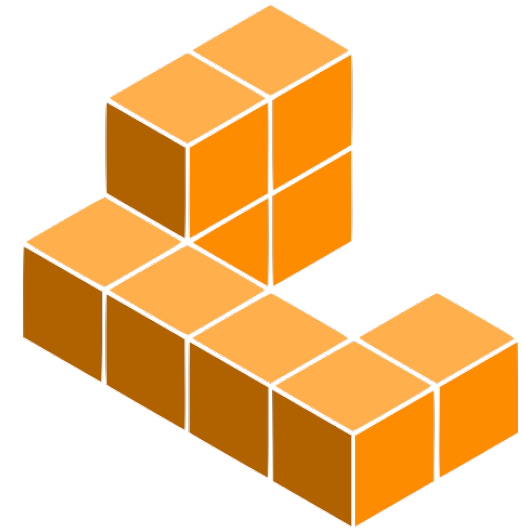
Spicy

Two students looked at this same 3D structure and drew different front views.



How could that happen?

Describe or show two different front views that could both be correct depending on how the object is turned.



Friday – Geometry Connections Sketch Challenge

Big Idea: We can represent and compare 2D and 3D shapes by analyzing their properties and symmetry.

Mild

Think of a shape you can see around the classroom (like a square, rectangle, or parallelogram).

- ➡ Sketch it on your grid paper.
- ➡ Use arrows to show if it has rotational symmetry (and how many times).

Medium

Compare a square and a parallelogram.

- ➡ Sketch both on your grid paper.
- ➡ Label their sides and angles, then use shading or symbols to show:
 - Which sides are parallel
 - Which shape has right angles
 - Which has rotational symmetry (and how many times)

Spicy

Design your own 3D structure using cubes.

- ➡ Sketch the top, front, and side views of your creation on grid paper.
- ➡ Challenge: Arrange your cubes so that the top view has rotational symmetry (it looks the same when turned halfway around).
- ➡ Label each view clearly.