

Lesson 3: Attributes that Define Shapes

Standards Alignments

Addressing 3.G.A.1, 3.NBT.A.3

Teacher-facing Learning Goals

- Describe and identify shapes using their distinguishing attributes.

Student-facing Learning Goals

- Let's play Mystery Quadrilateral.

Lesson Purpose

The purpose of this lesson is for students to describe geometric attributes of shapes.

Students ask yes or no questions about geometric attributes to identify a “mystery quadrilateral.” Students will need their quadrilateral cards from the previous lesson to hide in the mystery quadrilateral folder and will have access to the quadrilaterals in their workbook to support them in questioning, guessing, and ruling out quadrilaterals in the table. Also, it may be helpful to provide counters that students can use to cover quadrilaterals that they rule out with their questioning.

Access for:

Students with Disabilities

- Engagement (Activity 2)

English Learners

- MLR8 (Activity 2)

Instructional Routines

Number Talk (Warm-up)

Materials to Gather

- Counters: Activity 2
- Folders: Activity 2
- Materials from a previous lesson: Activity 1, Activity 2

Lesson Timeline

Warm-up

10 min

Teacher Reflection Question

Identify who participated in math class today. What assumptions are you making about those

| | |
|------------------|--------|
| Activity 1 | 10 min |
| Activity 2 | 25 min |
| Lesson Synthesis | 10 min |
| Cool-down | 5 min |

who did not participate?

Cool-down (to be completed at the end of the lesson)

🕒 5 min

Mystery Shape

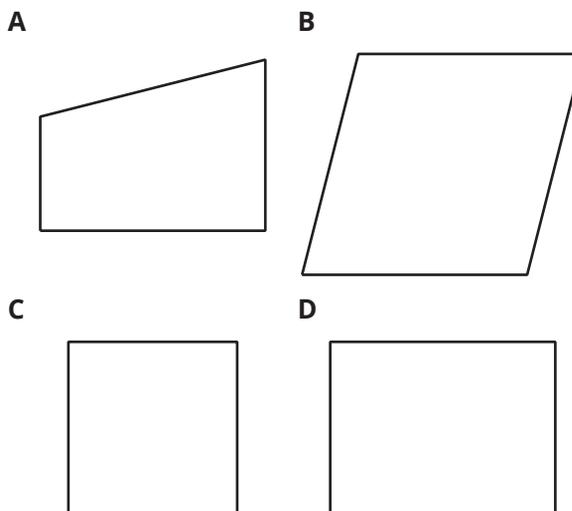
Standards Alignments

Addressing 3.G.A.1

Student-facing Task Statement

1. Which quadrilateral is being described?

- Hint 1: It has 4 sides.
- Hint 2: All of its sides are the same length.
- Hint 3: It has no right angles.



2. Which hints do you need to guess the quadrilateral? Explain your reasoning.

Student Responses

1. B
2. Sample responses:
 - Hints 2 and 3, because Hint 2 tells you that they have sides that are the same length

which gets rid of A and D. Then, Hint 3 tells you that there are no right angles which gets rid of C.

- You only need Hint 3 because B is the only shape with no right angles.