

# Eureka Math

## 4th Grade Module 4 Lesson 16

At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this project!

Directions for customizing presentations are available on the next slide.



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# Customize this Slideshow

## Reflecting your Teaching Style and Learning Needs of Your Students

- When the Google Slides presentation is opened, it will look like Screen A.
- Click on the “pop-out” button in the upper right hand corner to change the view.
- The view now looks like Screen B.
- Within Google Slides (not Chrome), choose FILE.
- Choose MAKE A COPY and rename your presentation.
- Google Slides will open your renamed presentation.
- It is now editable & housed in MY DRIVE.

The image displays two screenshots of a Google Slides presentation. The left screenshot, labeled 'Screen A', shows a slide with the text 'ReadyGEN™ in Action' and '3rd Grade Unit 3, Module A Lesson 1'. The right screenshot, labeled 'Screen B', shows the same slide but with the Google Slides interface overlaid. A red box highlights the 'pop-out' button in the top right corner of the browser window. A red arrow points to this button with the text 'pop-out'. Another red box highlights the 'File' menu, and a third red box highlights the 'Make a copy...' option. A dialog box titled 'Copy document' is open, showing the 'Enter a new document name:' field with the text 'Rename Your Presentation' and 'OK' and 'Cancel' buttons.

**Screen A**

ReadyGEN™ in Action

3rd Grade  
Unit 3, Module A  
Lesson 1

**Screen B**

Gr3(2) U3MAL1 Sample Lesson.pptx

File Edit View Insert Slide Format Arrange Tools Table Help Last edit was yesterday at

Share...

New

Open...

Rename...

Make a copy...

Organize...

Move to trash

Import slides...

See revision history

Language

Download as

Publish to the web...

Email collaborators...

Email as attachment...

Page setup...

Print settings and preview

Print

Copy document

Enter a new document name:

Rename Your Presentation

Comments will not be copied to the new document.

Share it with the same people

OK Cancel

ReadyGEN™ in Action

3rd Grade  
Unit 3, Module A  
Lesson 1

# Icons



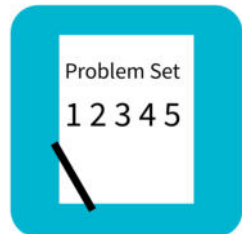
Read, Draw, Write



Learning Target



Personal White Board



Problem Set



Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



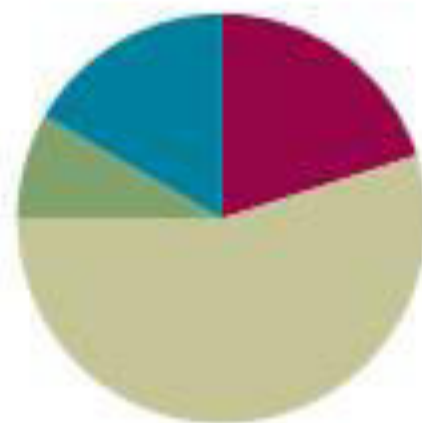
Small Group Time

## Lesson 16

**Objective:** Reason about attributes to construct quadrilaterals on square or triangular grid paper.

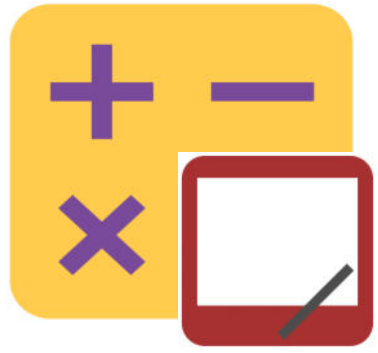
### Suggested Lesson Structure

■ Fluency Practice	(12 minutes)
■ Application Problem	(5 minutes)
■ Concept Development	(33 minutes)
■ Student Debrief	(10 minutes)
<b>Total Time</b>	<b>(60 minutes)</b>





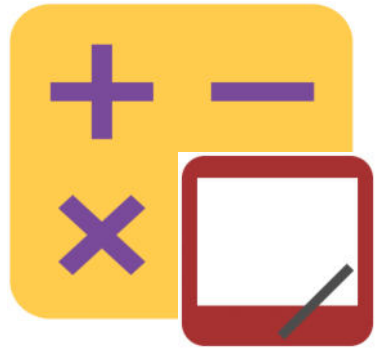
**I can reason about attributes  
to construct quadrilaterals  
on square or triangular  
grid paper.**



# Fluency Practice

Add and Subtract

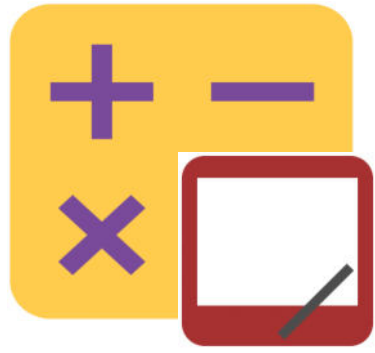
**Write 765 thousands 198 ones**



# Fluency Practice

Add and Subtract

**Write 156 thousands 185 ones**



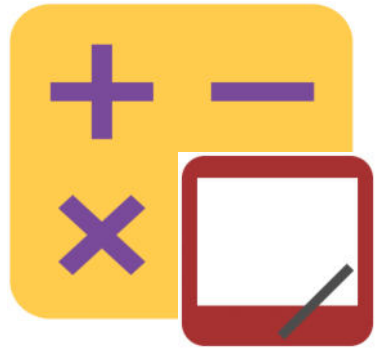
# Fluency Practice

Add and Subtract

**765,198 and 156,185**

**Find the **sum**  
standard algorithm.**

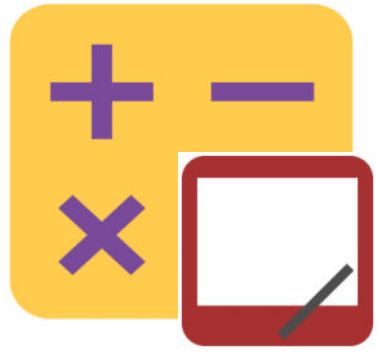




# Fluency Practice

Add and Subtract

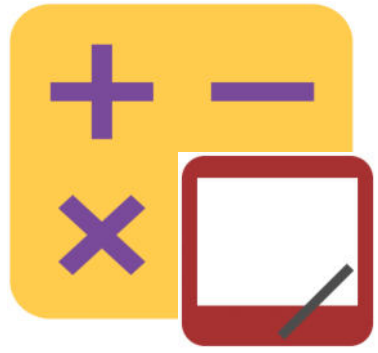
**Write 716 thousands 450 ones**



# Fluency Practice

Add and Subtract

**Write 325 thousands 139 ones**



# Fluency Practice

Add and Subtract

**716,450 and 325,139**

**Find the *difference*  
standard algorithm.**



# Fluency Practice

Find the Unknown Angle

**On your white board, write a number sentence to find the measure of  $\angle x^\circ$**

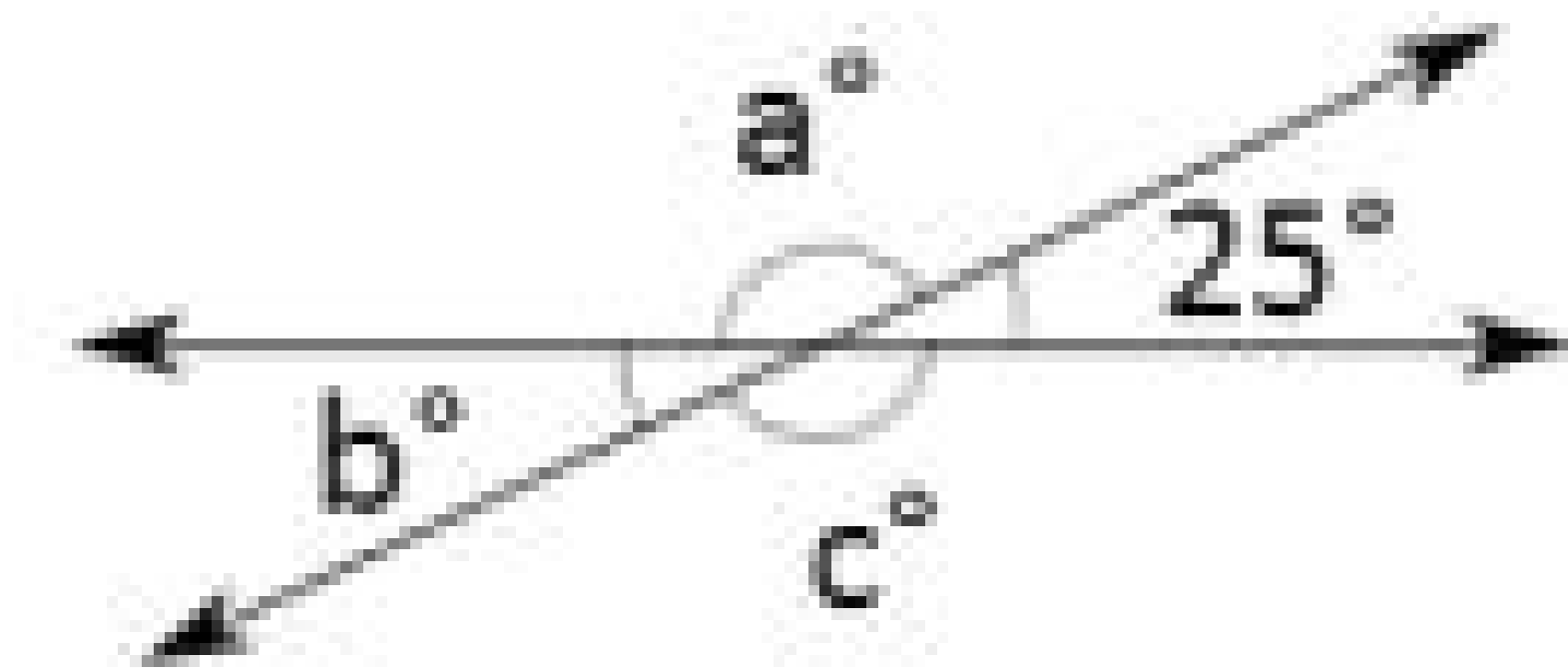




# Fluency Practice

Find the Unknown Angle

**Write a number sentence to find  $\angle x^\circ$**

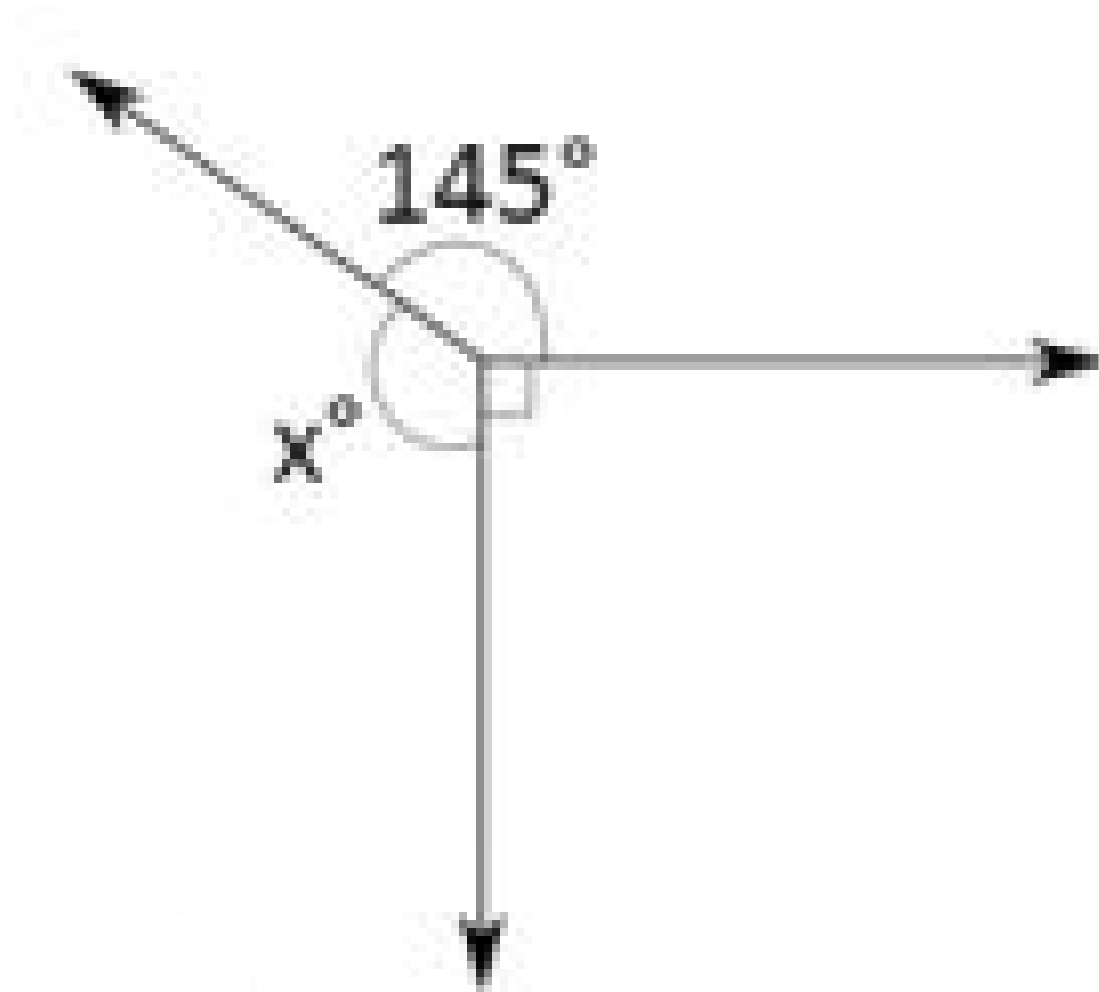




# Fluency Practice

Find the Unknown Angle

**Write a number sentence to find  $\angle x^\circ$**

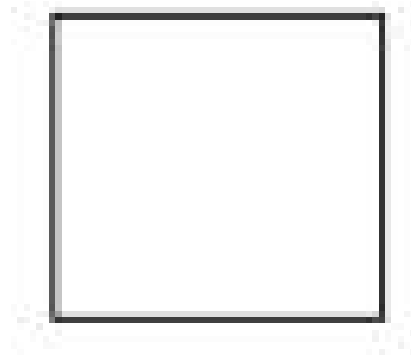




# Fluency Practice

Classify the Quadrilateral

**How many sides does the polygon have?**

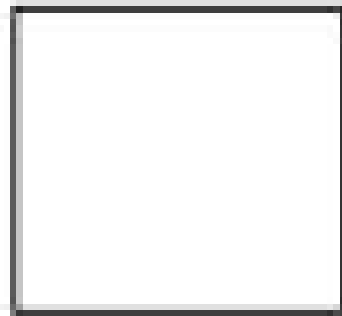


**What is the name of a polygon with four sides?**



# Fluency Practice

Classify the Quadrilateral



**Each angle in this quadrilateral is  $90^\circ$ .**

**It also has four equal sides.**

**What is a more specific name?**





# Fluency Practice

Classify the Quadrilateral



**Is this polygon a quadrilateral?**

**Why or why not?**



# Fluency Practice

Classify the Quadrilateral



**Is this polygon a quadrilateral?**

**It has two sets of parallel sides.**

**Is it a rectangle?**

**Why or why not?**



# Fluency Practice

Classify the Quadrilateral



**Is this polygon a quadrilateral?**



# Fluency Practice

Classify the Quadrilateral

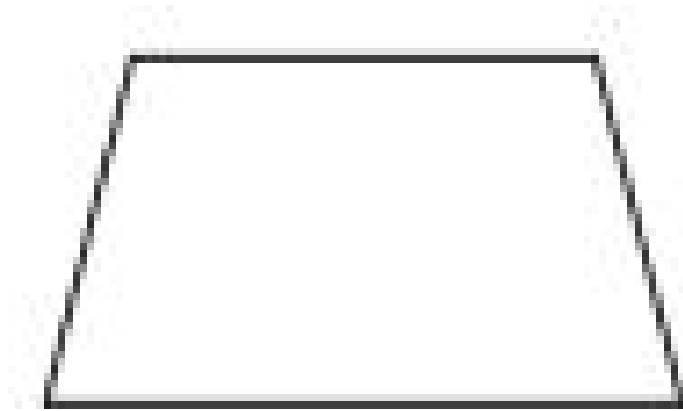


**Is it a rectangle?**



# Fluency Practice

Classify the Quadrilateral



**Is it a parallelogram?**



# Fluency Practice

Classify the Quadrilateral

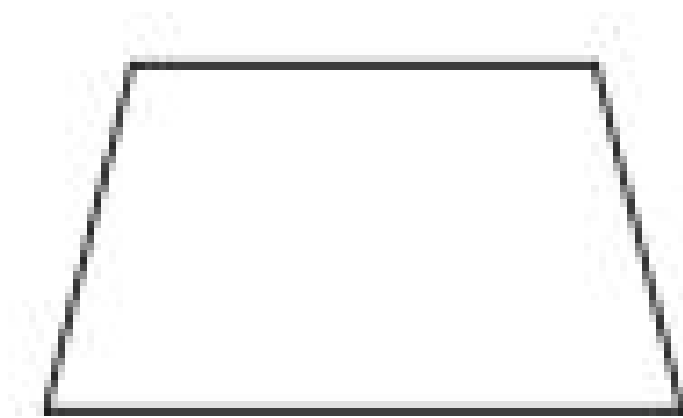


**Classify this quadrilateral**



# Fluency Practice

Classify the Quadrilateral



It is a **TRAPEZOID!**

Describe its attribute.



# Fluency Practice

Classify the Quadrilateral



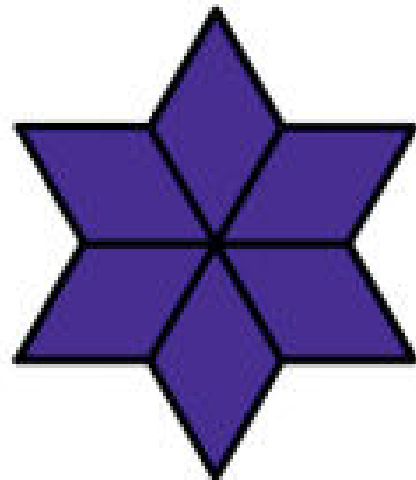
It is a **TRAPEZOID!**

**It has at least one pair of parallel sides.**



# Application Problem

**Within the star, find at least two different examples for each of the following.**



**Explain which attributes you used to identify each.**

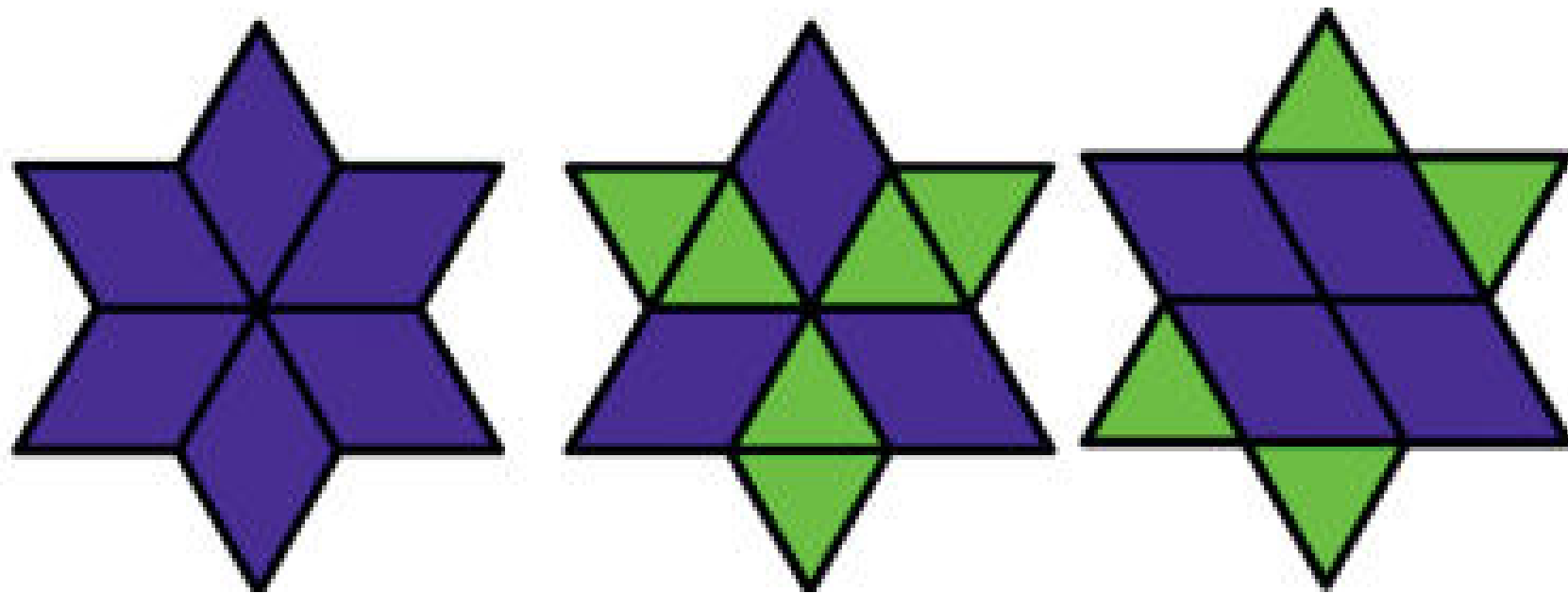
**Equilateral triangles**

**Trapezoids**

**Parallelograms**

**Rhombuses**

# Application Problem



**Explain which attributes you used to identify each.**

**Equilateral triangles**

**Trapezoids**

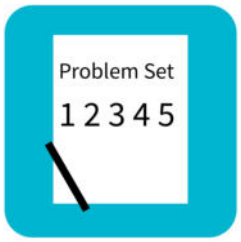
**Parallelograms**

**Rhombuses**

# Concept Development

## Materials

**(T/S) Rectangular and triangular grid paper, ruler, right angle template**

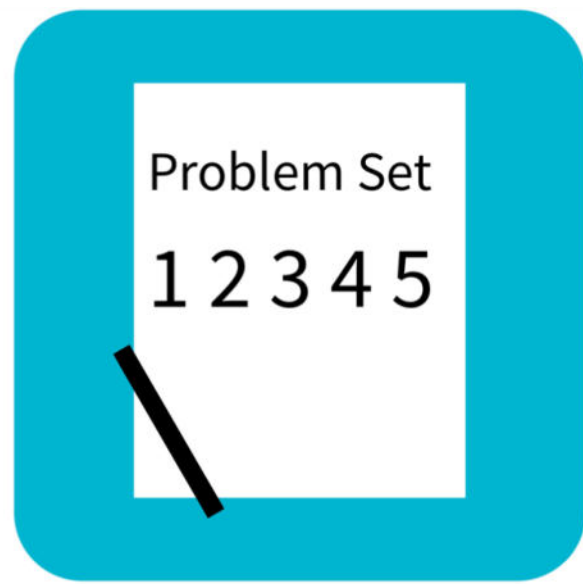


# Concept Development

Classify and Construct Quadrilaterals

**Please see Teacher Manual page 245**

**(Module 4 / Lesson 16 / Concept Devl)**



# Problem Set

Name \_\_\_\_\_

Date \_\_\_\_\_

1. On the grid paper, draw at least one quadrilateral to fit the description. Use the given segment as one segment of the quadrilateral. Name the figure you drew using one of the terms below.

Parallelogram	Trapezoid	Rectangle
Square		Rhombus
a. A quadrilateral that has at least one pair of parallel sides.		b. A quadrilateral that has four right angles.

# Debrief

**What figure did you draw in Problem 1(a)? Why are there so many different shapes that can be constructed?**

**How did the gridlines in Problem 1(b) help you to draw the right angles?**

**How are the shapes in Problems 2(a) and 2(b) similar and different?**

# Debrief

**How are the attributes of a rhombus and a rectangle similar?  
What two attributes distinguish a rhombus from a rectangle in Problem 3?**

**Which grid is more challenging for you, the triangular or the square grid? Explain which quadrilaterals are easiest for you to draw on either grid. Why do you think that is so?**

# Exit Ticket

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Construct a parallelogram that does not have any right angles on a rectangular grid.

