Today's Materials

- device
- pencil
- notebook
- glue

What are Scaled Copies?

Lesson 1

CCSS Standards: Addressing	• 7.G.A.1

Let’s explore scaled copies!

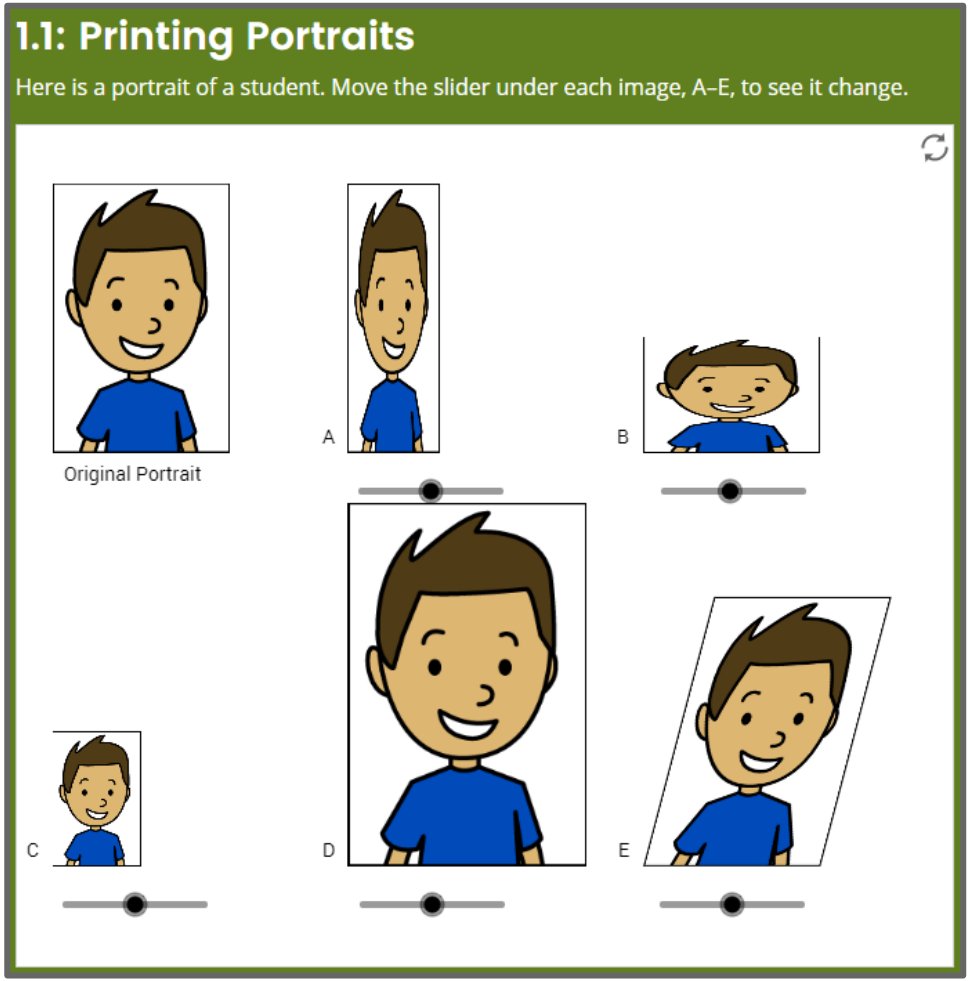
Printing Portraits

Warm Up 1.1

- Think Pair Share
- Stronger and Clearer Each Time

Here is a portrait of a student.

Move the slider under each image A-E, to see it change.

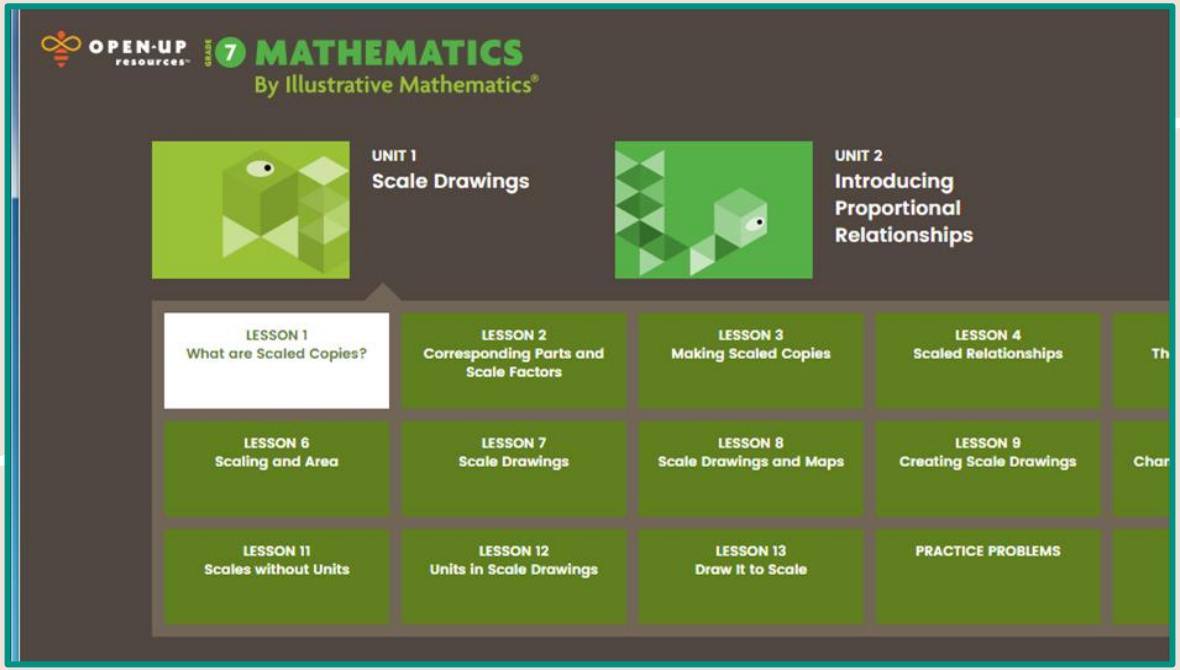


Created with GeoGebra (www.geogebra.org)

Today, we'll investigate

➔ Unit 1: Scale Drawings

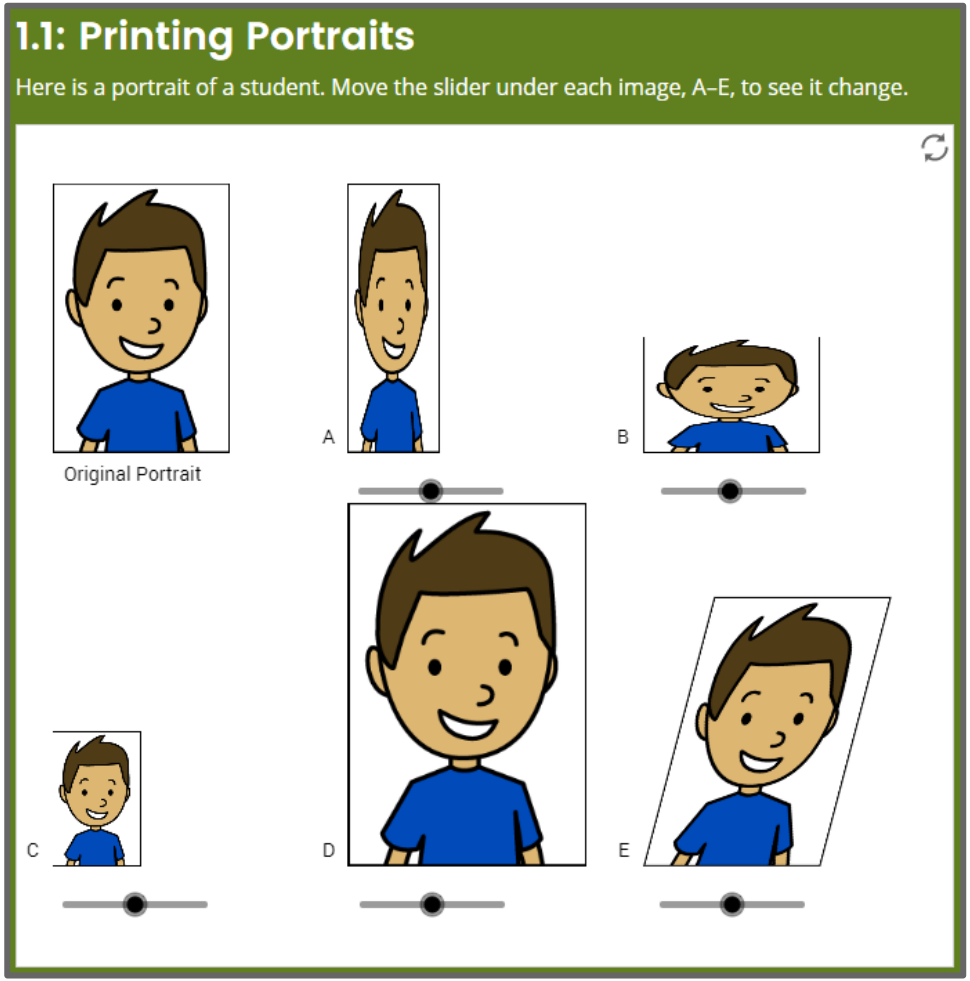
➔ Lesson 1: What are Scaled Copies?



Please begin working with Quiet Think Time. (2-3 min.)

Share your thoughts as a team.

- What did you notice using the applet?
- What is a <u>scaled copy</u>?



Today's Goals

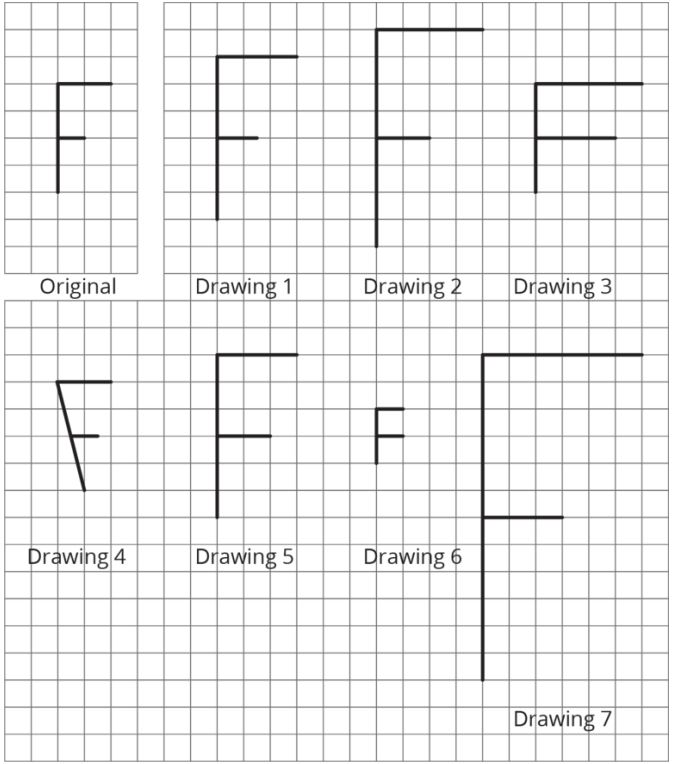
- ❏ I can tell whether or not a figure is a scaled copy of another figure.
- ❏ I can describe some characteristics of a scaled copy.

Scaling F

Activity 1.2

- Think Pair Share
- Collect and Display

Here is an original drawing of the letter F and some other drawings of the letter.



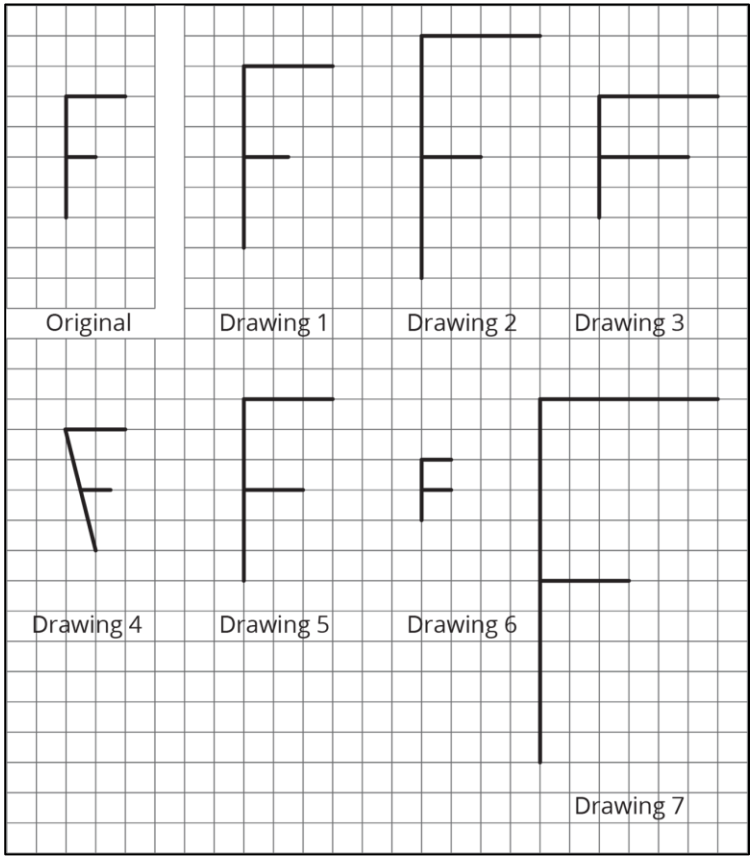
Begin with
Quiet Work Time.
(3-4 min.)

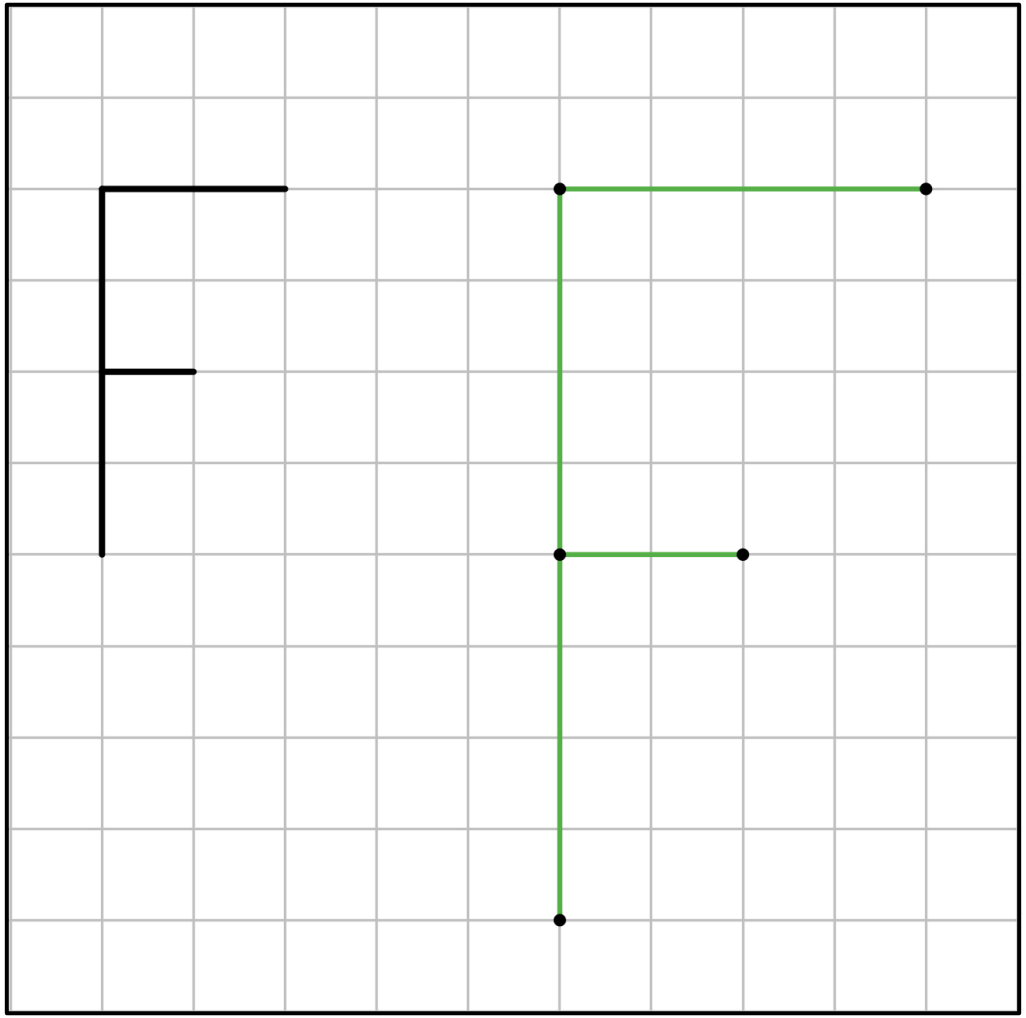
Talk about your
ideas as a team.

What features do the scaled copies have in common?

How do the other copies fail to show these features?

Here is an original drawing of the letter F and some other drawings.

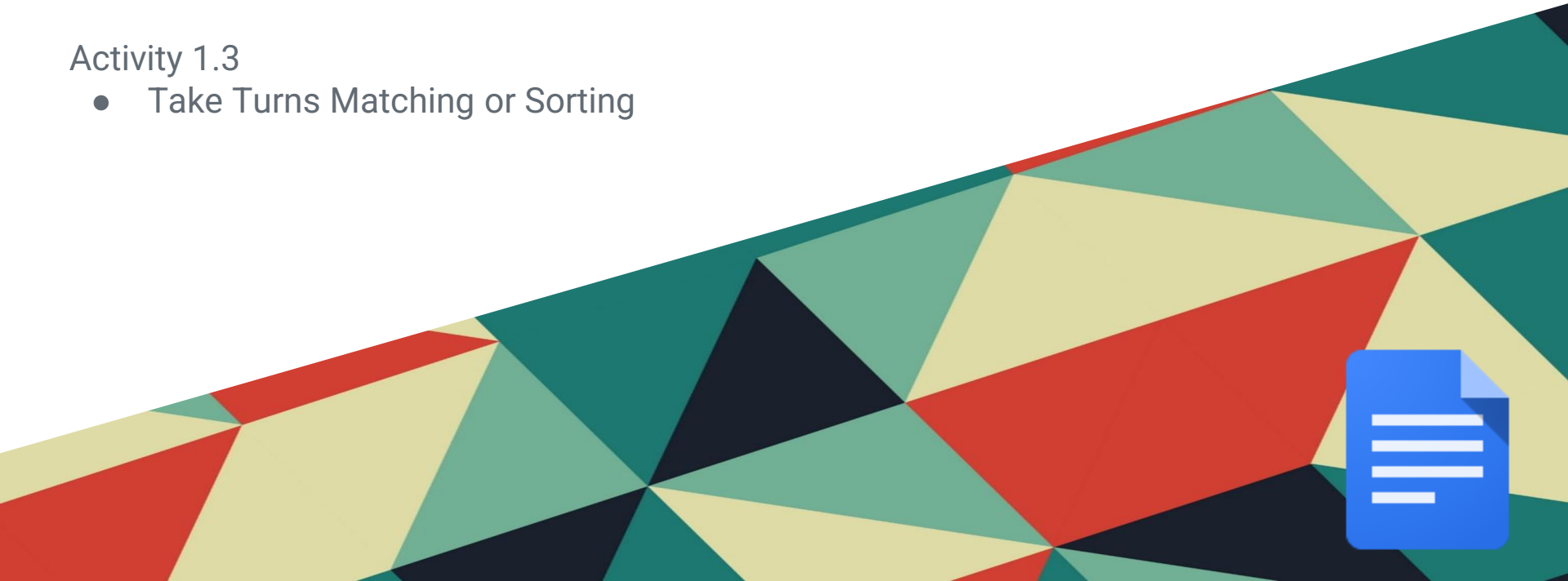




Pairs of Scaled Polygons

Activity 1.3

- Take Turns Matching or Sorting



Pairs of Scaled Polygons

- ➔ Match polygons that are scaled copies of one another.
  - ◆ Explain how you know it's a match.
  - ◆ Listen carefully to your partner! If you disagree, explain your thinking.
- ➔ Check your answers when you finish.
- ➔ Select one pair of polygons to examine further. Draw them on grid paper. (Share grid paper [halves] with a partner!)

I think these match because…

I don't think these match because…

I agree/disagree because…

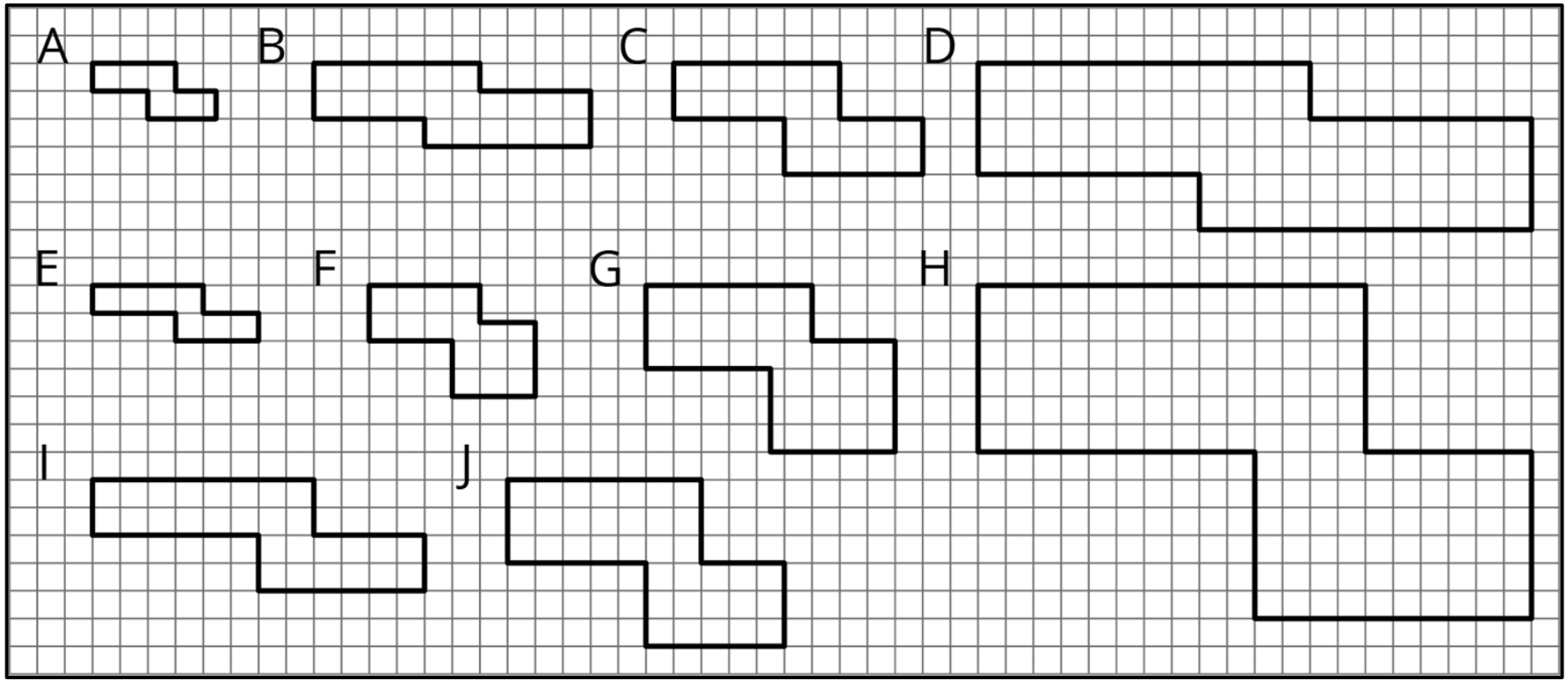
I agree, and I can also tell you that…

Why do you think that?

I used to think… but now I think…

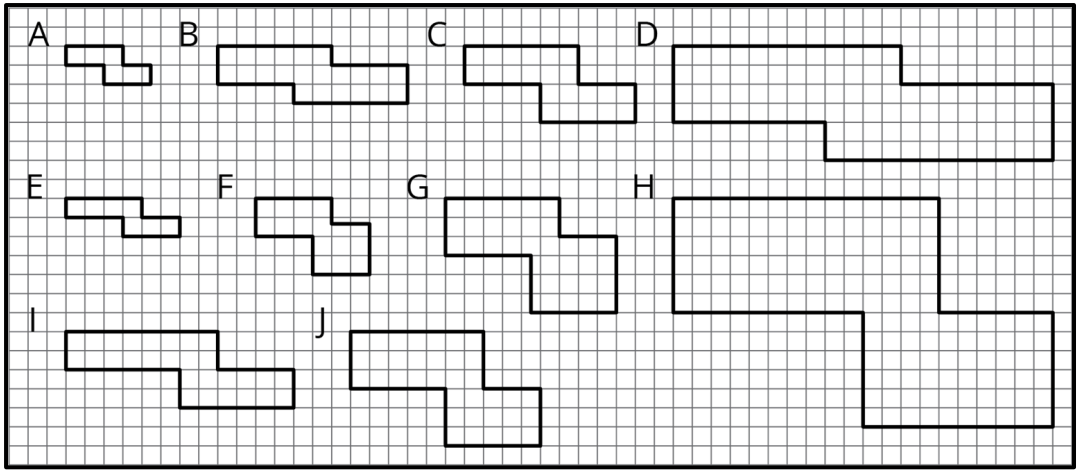
I don't know what you mean when you said…

Which polygons are scaled copies? How do you know?



Let’s Chat!

- When you looked at your polygons, what did you check for?
- How many sides did you compare before you decided that the polygons were or were not scaled copies?
- Did anyone check the angles of the polygons? Why or why not?



What is a **scaled copy**?

What are some characteristics of scaled copies?

How are they different from figures that are not scaled copies?

What **specific** information did you look for when determining if something was a scaled copy of an original?

Scaling L

Cool Down 1.4