## Lesson 5: Symmetry in Figures (Part 2)

* Let’s draw some figures that have lines of symmetry.

### Warm-up: Number Talk: Keeping Track

Find the value of each expression mentally.

* $43+57+50+7+3+40$
* $243+57+43+257$
* $1,​043+257+57+200+43+1,​000$
* $1,​943+257+1+257+1,​000+943$

### 5.1: Half-drawn Figures

Each shaded triangle is half of a whole figure that has a line of symmetry shown by the dashed line.



Clare drew in some segments to show the missing half of each figure.



Do you agree that the dashed line is a line of symmetry for each figure Clare completed? Explain your reasoning. If you disagree with Clare's work, show a way to complete the drawing so the dashed line is a line of symmetry.

### 5.2: What’s the Whole Picture?

1. Here are three figures. Each figure is half of a whole figure. The dashed line is a line symmetry of that figure.
* 
* Use patty paper to help you draw the whole figure.
1. Each figure on the grid is half of a whole figure that has a line of symmetry. The dashed line shows the line of symmetry. Use the grid to help you draw the whole figure. Be as precise as possible.
* 
1. Here is another figure that is half of a whole figure with a vertical line of symmetry. Draw the whole figure. Be as precise as possible.
* 

### 5.3: What Could the Whole Figure Be?

Trace a triangle cutout from your teacher.

If the triangle is half of a whole figure that has line symmetry, what could the whole figure look like? Can you show two possibilities? Three possibilities?



© CC BY 2021 Illustrative Mathematics®