## Unit 8 Lesson 5: Symmetry in Figures (Part 2)

### WU Number Talk: Keeping Track (Warm up)

#### Student Task Statement

Find the value of each expression mentally.

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

### 1 Half-drawn Figures

#### Student Task Statement

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.

### 2 What’s the Whole Picture?

#### Student Task Statement

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.
* 

### 3 What Could the Whole Figure Be? (Optional)

#### Student Task Statement

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?

#### Images for Activity Synthesis





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