

# Discussion Problem

## Polygons

### **National Curriculum Objectives:**

**Mathematics Year 4: (4G2a) Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes**

### **About this resource:**

**This resource has been designed for it to provide pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.**

**There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.**

**We recommend self or peer marking using the answer page provided to promote discussion and self-correction.**

# Polygons

An astronomer is describing a new constellation. Follow the clues to draw the constellation he could be describing. Find two possibilities. Name the polygons you have made.



- This constellation has 1 or more right angles.
- It has 2 sides of equal length.
- At least one angle is an acute angle.

DP

# Polygons

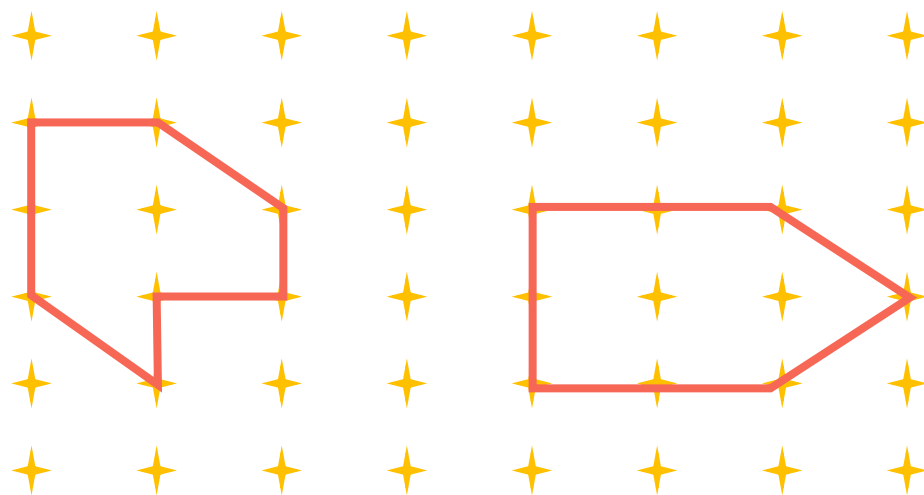
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DP

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Various answers, for example:



an irregular heptagon; an irregular pentagon