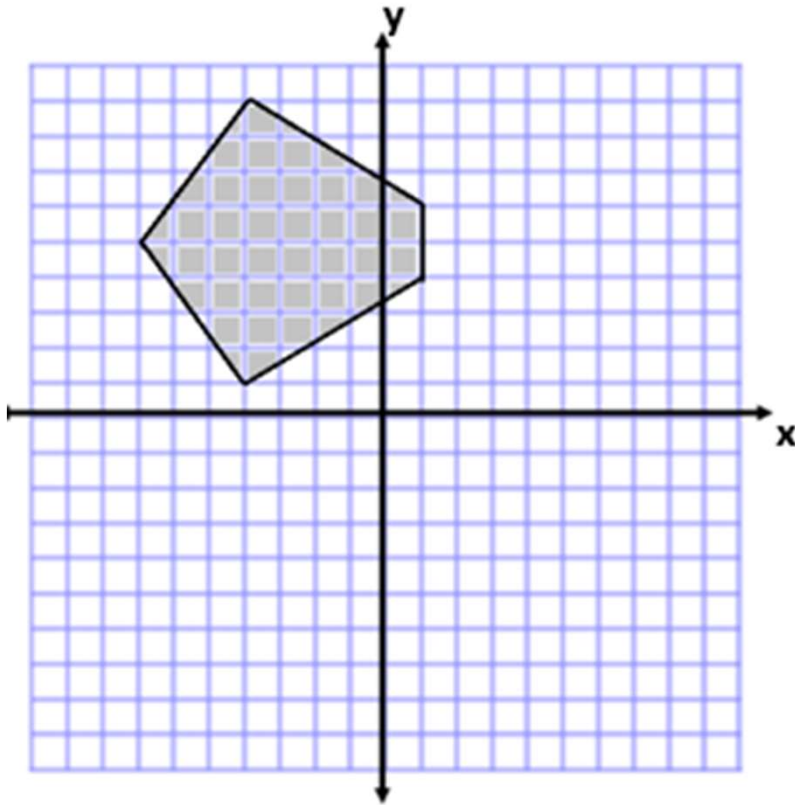# Geometry Worksheets
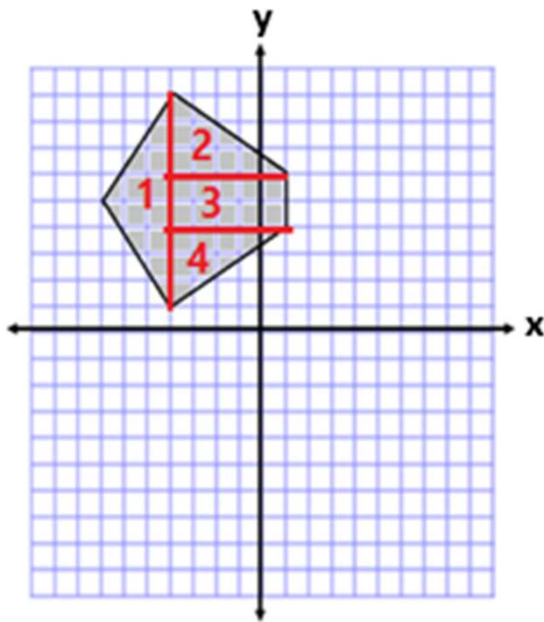## (Area of Polygons in the Coordinate Plane)

1. Determine the area of the following shape.

Geometry Worksheets
(Area of Polygons in the Coordinate Plane)

1. Determine the area of the following shape.

Area of Triangle 1

$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2}(8 \text{ units})(3 \text{ units})$$

$$A = (4 \text{ units})(3 \text{ units})$$

$$A = 12 \text{ units}^2$$

Area of Triangles 2 and 4

$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2}(5 \text{ units})(3 \text{ units})$$

$$A = \frac{1}{2}(15 \text{ units}^2)$$

$$A = 7.5 \text{ units}^2$$

Since triangles 2 and 4 have the same base and height measurements, the combined area is 15 units^2.
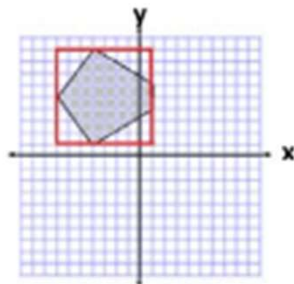
Area of Rectangle 3

$$A = bh$$

$$A = (5 \text{ units})(2 \text{ units})$$

$$A = 10 \text{ units}^2$$

$$\text{Total Area} = 12 \text{ units}^2 + 15 \text{ units}^2 + 10 \text{ units}^2$$
$$\text{Total Area} = 37 \text{ units}^2$$

Another correct solution might start with the following diagram:

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