

# STUDY GUIDE INCLUDED FOR EXAMPLES & RULES

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## AREA OF POLYGONS STUDY GUIDE

### Area of Parallelograms

- A parallelogram is a type of quadrilateral that has two sets of parallel lines.
- A rectangle is a type of parallelogram.
- To find the area of a parallelogram, we use the formula  $A = bh$ , where  $b$  stands for base and  $h$  stands for height.
- The height is always perpendicular to the base, and often represented by a dotted line.

**EXAMPLE: FIND THE AREA OF THE PARALLELOGRAM BELOW.**

*Pro Tip:* Be careful to use the **height** in your formula, and not the slanted side!



First, we copy down the formula for the area of a parallelogram.  
Next, we substitute the values given into our formula.  
Then, we solve for the area by the operation in our equation or answer with our given unit.

$$A = bh \Rightarrow A = 54 \text{ in}^2$$

$$A = 9 \cdot 6$$

### Area of Triangles

- A triangle is really just a parallelogram or rectangle cut in half.
- To find the area of a triangle, we use the formula  $A = \frac{1}{2}bh$ , where  $b$  stands for base and  $h$  stands for height.
- The height is always perpendicular to the base, and often represented by a dotted line.

**EXAMPLE: FIND THE AREA OF THE TRIANGLE PICTURED BELOW.**

*Pro Tip:* Multiplying by  $\frac{1}{2}$  is the same as dividing by two. You can also write the formula as  $A = bh \div 2$ .



Copy down the formula for a triangle.  
Substitute the values given into our formula.  
Finally, solve for the area by performing the operation in our equation and label it.

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

$$A = \frac{1}{2}(10)(4)$$

$$A = 20 \text{ in}^2$$

### Area of Trapezoids

- A trapezoid is a four-sided figure that has one set of parallel lines.
- The formula to find the area of a trapezoid is  $A = \frac{1}{2}b(b_1 + b_2)$ , where  $h$  is the height and  $b$ , and  $b_1$  and  $b_2$  are the two bases, or the parallel lines.

**EXAMPLE: FIND THE AREA OF THE TRAPEZOID PICTURED BELOW.**

*Pro Tip:* It does not matter which is base one or base two, as long as they are from the set of parallel lines!



Copy down the formula for the area of a trapezoid.  
Substitute the values that we are given into our formula.  
Finally, solve for the area by performing the operations in our equation, labeling our answer with units squared.

$$A = \frac{1}{2}b(b_1 + b_2) \Rightarrow A = \frac{1}{2}(9)(12 + 8) \Rightarrow A = 90 \text{ in}^2$$

### Area of Composite Figures

- A composite figure is an irregular shape that is composed of two or more polygons.
- In order to find the area of a composite figure, separate the figure into shapes for which we can find the area using a formula. Then, find the sum of those areas.

**EXAMPLE: FIND THE AREA OF THE FIGURE PICTURED BELOW.**

First, we need to decide what our shapes are. In this case, we have a rectangle and a triangle.  
Now, let's find the area of each shape. Write down the formula, then substitute the given values, and solve for the area by performing the operations in our equation.  
Finally, we add those areas together to find the total area of our composite figure!



### Area of Polygons on a Coordinate Plane

- We can find the area of shapes on a coordinate plane by using the formula.
- In order to determine the length of the base(s) and height, we can count the units or subtract the values in our ordered pairs.

**EXAMPLE: FIND THE AREA OF A POLYGON BELOW.**



Since this is a triangle, we copy the formula for a triangle.  
To find the base and height values to substitute, we can count the units, or subtract the ordered pairs (x-values for a horizontal line, y-values for a vertical line).  
Finally, solve the equation for the given values and label with units squared.

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

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

$$A = 2.25 \text{ u}^2$$

# LET KIDS USE THEIR NOTES!

# Study Guide For Polygons

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