

# 7 2 Practice Similar Polygons

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

7-2

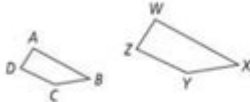
## Practice

Form K

### Similar Polygons

List the pairs of congruent angles and the extended proportion that relates the corresponding sides for the similar polygons.

1.  $ABCD \sim WXYZ$

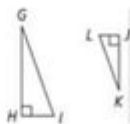


$$\angle A \cong \angle W \quad \angle B \cong \square$$

$$\angle C \cong \square \quad \angle D \cong \square$$

$$\frac{AB}{WX} = \frac{BC}{XY} = \frac{\square}{\square} = \frac{\square}{\square}$$

2.  $\triangle GHI \sim \triangle KJL$



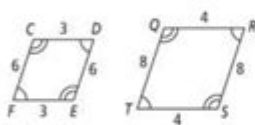
$$\angle G \cong \square \quad \angle H \cong \square$$

$$\angle I \cong \square$$

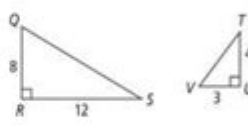
$$\frac{GH}{KJ} = \frac{\square}{\square} = \frac{\square}{\square}$$

Determine whether the polygons are similar. If so, write a similarity statement and give the scale factor. If not, explain.

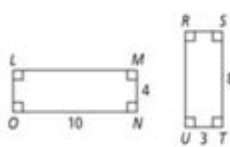
3.



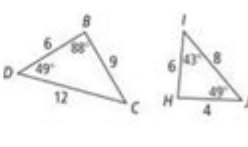
4.



5.

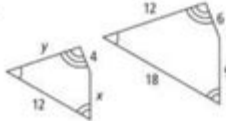


6.

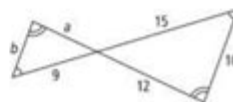


**Algebra** The polygons are similar. Find the value of each variable.

7.



8.



## 7.2 Practice: Similar Polygons - Mastering the Concepts and Solving Problems

Unlocking the world of similar polygons can feel like navigating a geometric maze. But fear not! This comprehensive guide will equip you with the knowledge and practice you need to confidently tackle 7.2 practice problems on similar polygons. We'll break down the core concepts, provide practical examples, and offer tips to help you master this crucial geometry topic. Get ready to conquer those

similar polygon challenges!

## Understanding Similar Polygons: The Foundation

Before diving into practice problems, let's solidify our understanding of what makes polygons similar. Two polygons are considered similar if they meet two crucial conditions:

**Corresponding Angles are Congruent:** This means that all matching angles in the two polygons have the same measure. Think of it like perfectly aligned mirrors – the angles reflect each other exactly.

**Corresponding Sides are Proportional:** The ratio of the lengths of corresponding sides must be constant. This doesn't mean the sides are the same length, but that they are scaled consistently. For example, if one side of a polygon is twice the length of its corresponding side in a similar polygon, then all corresponding sides will maintain this 2:1 ratio.

### Identifying Similar Polygons: A Visual Approach

Imagine two triangles: Triangle A has sides of 3cm, 4cm, and 5cm, while Triangle B has sides of 6cm, 8cm, and 10cm. Notice that the sides of Triangle B are exactly double the lengths of Triangle A's sides ( $6/3 = 2$ ,  $8/4 = 2$ ,  $10/5 = 2$ ). Furthermore, if you were to measure their angles, you'd find that corresponding angles are equal. Therefore, Triangle A and Triangle B are similar.

## 7.2 Practice Problems: Working Through Examples

Let's tackle some typical 7.2 practice problems involving similar polygons. These examples will illustrate how to apply the concepts we've just learned.

### Problem 1: Finding Missing Side Lengths

Two similar rectangles, Rectangle P and Rectangle Q, have corresponding sides in a ratio of 3:5. If Rectangle P has a width of 9cm and a length of 12cm, what are the dimensions of Rectangle Q?

**Solution:** Since the ratio is 3:5, we can set up proportions:

$$\text{Width of Q} / \text{Width of P} = 5/3 \Rightarrow \text{Width of Q} / 9\text{cm} = 5/3 \Rightarrow \text{Width of Q} = 15\text{cm}$$

$$\text{Length of Q} / \text{Length of P} = 5/3 \Rightarrow \text{Length of Q} / 12\text{cm} = 5/3 \Rightarrow \text{Length of Q} = 20\text{cm}$$

Therefore, Rectangle Q has a width of 15cm and a length of 20cm.

## Problem 2: Determining Similarity

Two triangles, Triangle X and Triangle Y, have angles of  $60^\circ$ ,  $70^\circ$ , and  $50^\circ$  and  $50^\circ$ ,  $60^\circ$ , and  $70^\circ$ , respectively. Are the triangles similar?

Solution: Yes, the triangles are similar because their corresponding angles are congruent. The order of the angles doesn't matter; as long as the angles match up, the triangles are similar.

## Problem 3: Working with Scale Factor

A polygon has a perimeter of 24 units. A similar polygon has a perimeter of 36 units. What is the scale factor between the two polygons?

Solution: The scale factor is the ratio of the perimeters:  $36/24 = 3/2$  or 1.5. This means the larger polygon is 1.5 times the size of the smaller polygon.

## Problem 4: Solving for Unknown Angles

Two similar pentagons, Pentagon A and Pentagon B, have corresponding angles  $\alpha$  and  $\beta$ . If  $\alpha = 110^\circ$  and the sum of the interior angles of Pentagon B is  $540^\circ$ , what is the measure of angle  $\beta$ ?

Solution: Since the pentagons are similar, their corresponding angles are congruent. Therefore,  $\beta = \alpha = 110^\circ$ . The sum of the interior angles is irrelevant in determining the measure of a specific angle.

## Advanced Concepts and Tips for Success

While basic similarity is relatively straightforward, more complex problems might involve using properties of similar triangles within larger figures, or using similarity to solve problems involving area and volume ratios. Remember to:

Draw diagrams: Visual representations greatly aid in understanding the relationships between similar polygons.

Label clearly: Make sure to label corresponding sides and angles to avoid confusion.

Check your work: Always verify your calculations and ensure your solutions are logical.

## Conclusion

Mastering 7.2 practice problems on similar polygons requires a solid understanding of the core concepts and consistent practice. By focusing on the principles of congruent angles and proportional sides, and by working through a variety of problems, you'll build the confidence and skills needed to tackle any challenge. Remember to break down complex problems into smaller, manageable steps. Keep practicing, and you'll soon find yourself navigating the world of similar polygons with ease!

## Frequently Asked Questions (FAQs)

Q1: Are all squares similar? Yes, all squares are similar because their corresponding angles are always 90 degrees, and the ratio of their sides will always be consistent (even if the squares are different sizes).

Q2: How do similar polygons relate to congruence? Congruent polygons are a special case of similar polygons where the scale factor is 1 (meaning the polygons are identical in size and shape).

Q3: Can I use similar polygons to solve real-world problems? Absolutely! Similar polygons are used in many applications, including architecture, engineering, and mapmaking (scale models).

Q4: What if the corresponding sides aren't given directly? You may need to use other geometric principles (such as Pythagorean theorem or trigonometric ratios) to find missing side lengths before determining similarity.

Q5: Are all similar polygons regular polygons? No. Similar polygons can be regular (all sides and angles are equal) or irregular (sides and angles are not all equal). The key is that corresponding angles are congruent, and corresponding sides are proportional.

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