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Similar Polygons Answers And Work

Q. The polygons in

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each pair are similar.
Find the scale factor of
the smaller figure to
the larger. figure.

Similar Polygons | Geometry Quiz - Quizizz

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In geometry, two
figures that have the
same shape are called
similar. Two polygons

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are if corresponding angles are congruent and corresponding side lengths are proportional. In the diagram, ABCD is similar to EFGH. The symbol \sim indicates similarity.

7.2 Similar Polygons

The polygons in each pair are similar.

15) $8x - 2$ 42 63 49 49 16) x
 $- 2$ 27 18 12 36 36 24

17) 30 $6x - 6$ 42 35 63
 49 18) 16 $2x + 4$ 35 40

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35 45 19) $3x + 11$ A 42
B scale factor from A to
B = 5 : 6 20) 30 A $3x$ B
scale factor from A to B
= 5 : 6 21) 14 A $8x - 7$
B scale factor from A to
B = 2 : 7 22) 48 A $8x$ B
scale factor from A to B
= 6 : 7-2-

7-Using Similar Polygons - Kuta

Corresponding Parts of Similar Polygons. In the diagram below, ABC is similar to DEF. You can write "ABC is similar to

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DEF" as $ABC \sim DEF$. A similarity transformation preserves angle measure. So, corresponding angles are congruent. A similarity transformation also enlarges or reduces side lengths by a scale factor k .

Similar Polygons

Geometry: Common Core (15th Edition)
answers to Chapter 7 -

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Similarity - 7-2 Similar
Polygons - Lesson

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including work step by
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like you. Textbook

Authors: Charles,
Randall I., ISBN-10:
0133281159, ISBN-13:
978-0-13328-115-6,
Publisher: Prentice Hall

Chapter 7 -
Similarity - 7-2
Similar Polygons -
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Properties of Similar Polygons Two polygons are similar if 1. they have the same number of sides. 2. their corresponding angles are congruent. 3. their corresponding sides have a constant ratio (in other words, if they are proportional). Typically, problems with similar polygons ask for missing sides.

Similar Triangles and Polygons

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Answers And
(solutions, examples
...
Work Shown

Similar Polygons

Date_____ Period_____

State if the polygons
are similar. 1) 14 10 14

10 21 15 21 15 similar

2) 24 18 24 18 36 24

36 24 not similar 3) 5 7

5 7 40° 15 21 15 21

130° not similar 4) 40

20 40 20 100° 48 24

48 24 100° similar 5)

9.1 8 9.1 14 16.7 10

16.7 21 not similar 6)

12.4 20 12.4 28 15.5

25 15.5 35 similar 7) 5

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Answers And
6 5 6 80 ...
Work Shown

Similar Polygons

Date Period - Kuta

Similar Polygons Use
Similar Figures You can
use scale factors and
proportions to find
missing side lengths in
similar polygons. The
two polygons are
similar. Find x and y .
 $x = 38$ $y = 32$ 16 13 T S R P N
M Use the congruent
angles to write the
corresponding vertices
in order. $RST \sim MNP$

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Answers And
Work Show

Write proportions to
find x and y .
 $\frac{-32}{-x} = \frac{16}{13}$
 $(3)(30) = 2 - 38$
 $y = -32$
 16

NAME DATE PERIOD **7-2 Study Guide and** **Intervention**

Polygons can still be similar even if one of them is rotated, and/or mirror image of the other. In the figure below, all three polygons are similar. Starting with the polygon on the left, the

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center polygon is
rotated clockwise 90° ,
the right one is flipped
vertically.

Similar polygons and triangles defined - Math Open Reference

This worksheet was
designed to assess
identifying polygons. It
includes 8 different
polygons and places to
label the shapes name,
number of sides and
number of vertices it

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has. This may also be used as a quick math journal entry. The answer document is included.

Polygon Worksheets | Teachers Pay Teachers

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practice of achieving
the vision. Adhere to
the directions about
what to edit. The
estimating worksheet
is designed to direct
you.

Similar Polygons Worksheet Answers | Briefencounters

Properties of Similar
Polygons Determine
whether each pair of
polygons is similar.

Explain. 15 12 17 24

aa.B- $\frac{3}{31} = \frac{3}{31}$ ch pair

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of polygons is similar.
Find each missing side
me 5.6 10 — 15 18 12
18 14 3.s 7. TILES A
blue rectangular tile
and a red re The blue
hag a length of 10
inches and a perimeter
of 30 inches.

PERIOD Lesson 4 **Homework Practice** **Properties of Similar**

...

two polygons are
similar if their
corresponding angles

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are con.... triangle RST
is similar to triangle
XYZ. $AB/EF=BC/FG=CD$
 $/GH=DA/HE$. if two
angles of one triangle
are congruent to 2
angles of ano.... Similar
polygons. two polygons
are similar if their
corresponding angles
are con.... Similarity
statement.

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concepts. ... Similar
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Ratio;

Perimeter and Area of Polygons Worksheets - Math Goodies

Similar Polygons Use
Similar Figures You can
use scale factors and
proportions to find
missing side lengths in
similar polygons.

Example 1: The two
polygons are similar.

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Find x and y . Example
2: If $\triangle AGH \sim \triangle IJ$, find the
scale factor of $\triangle ADEF$ to
 $\triangle AGH$ and the
perimeter of each
triangle. 32 16 38 13
The scale factor is $\frac{HJ}{AG}$
12 The perimeter of
 $\triangle ADEF$ is 12 or 30.

Ms. Johnson's Classroom Site - Home

New Version Fixed a
Typo: [https://youtu.be/
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defines similar

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polygons and shows
how to use the
properties of similar
triangles to solve ...

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