# **Similar Figures Printable Notes**

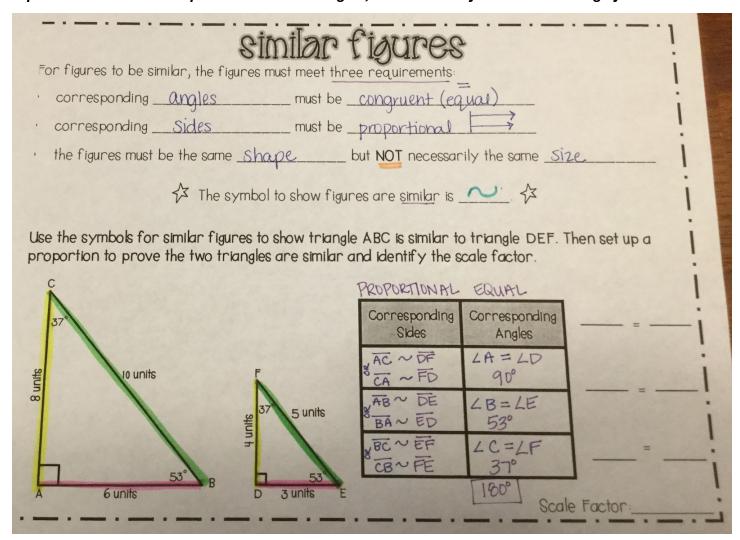
## **Corresponding Sides & Angles**

Week 1 (4/20-4/24)

Topic: Identify corresponding sides and corresponding congruent angles of similar quadrilaterals and

triangles.

Topic: Given two similar quadrilaterals or triangles, write similarity statements using symbols.



### **Corresponding Sides & Angles**

Week 1 (4/20-4/24)

Topic: Identify corresponding sides and corresponding congruent angles of similar quadrilaterals and

triangles.

Topic: Given two similar quadrilaterals or triangles, write similarity statements using symbols.

Week 2 (4/27-5/1)

Topic: Given angle measures in a quadrilateral or triangle, determine unknown angle measures in a similar quadrilateral or triangle.

# Similar Figures

Similar Figures are figures that are similar, have the same shape, but NOT necessarily the same size.

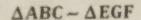
When two figures are similar,

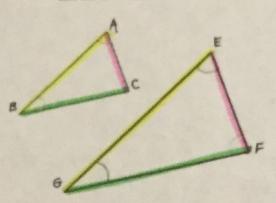
- · Corresponding angles must be congruent.
- · Corresponding sides must be proportional.

#### Vocabulary:

Symbol	Representation	
~	Similar Same shape, different size	
ДАВС	Triangle ABC	

Symbol	Representation	
DE	Line segment DE	
=	Congruent (equal)	





PROPORTIONAL EQUAL	
Corresponding Sides	Corresponding Equivalent Angles
ABN EG	LA = LE
BC ~ GF	48=46
CA ~ FE	LC=LF

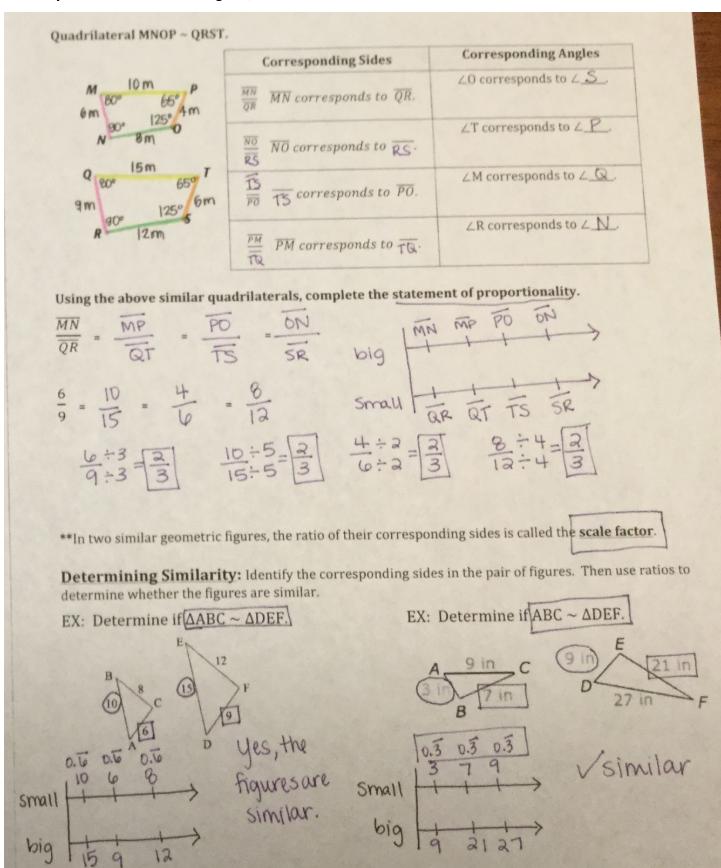
Using the above similar triangles, complete the statement of proportionality.

$$\frac{\overrightarrow{AB}}{\overrightarrow{EG}} = \frac{\overrightarrow{GC}}{\overrightarrow{GF}} = \frac{\overrightarrow{GC}}{\overrightarrow{FE}} = \frac{\overrightarrow{GC}}{\overrightarrow{FC}} = \frac{\overrightarrow{GC}}{$$

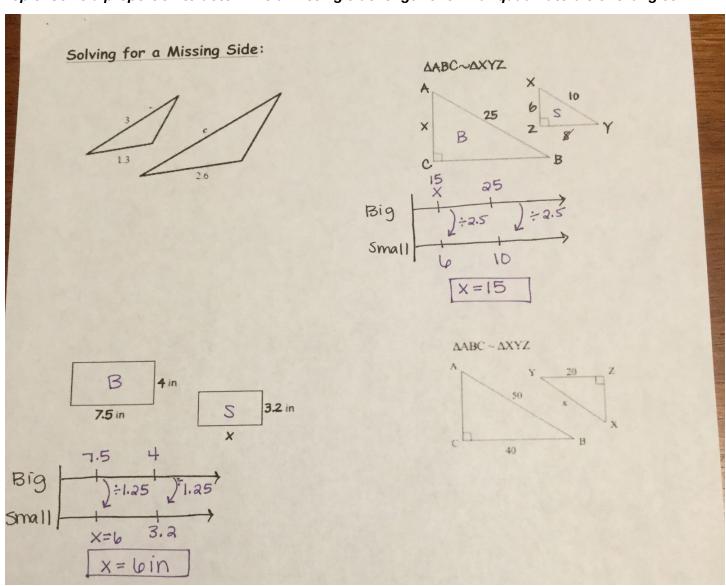
### **Determining Similar Figures**

#### Week 1 (4/20-4/24)

Topic: Write proportions to express the relationships between the lengths of corresponding sides of similar quadrilaterals and triangles.)



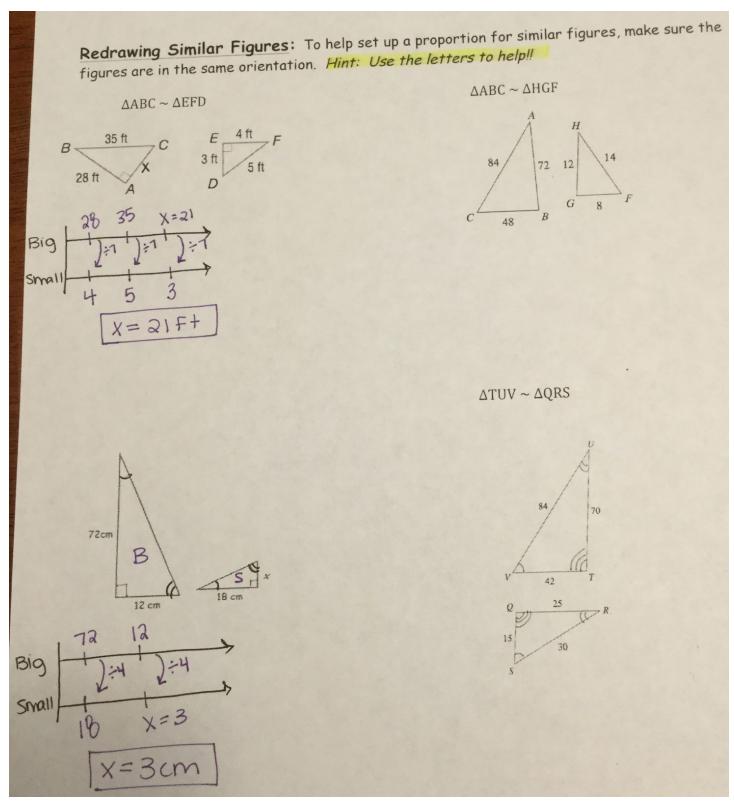
Topic: Solve a proportion to determine a missing side length of similar quadrilaterals or triangles.



# Solving for a Missing Side

Week 2 (4/27-5/1)

Topic: Solve a proportion to determine a missing side length of similar quadrilaterals or triangles.



**Overlapping Similar Figures** 

Week 2 (4/27-5/1)

Topic: Solve a proportion to determine a missing side length of similar quadrilaterals or triangles.

