

Name:

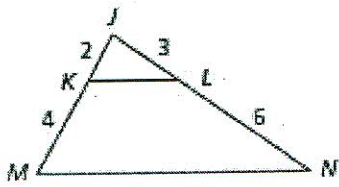
Date:

Period:

# Triangle Similarity

Determine **why** the following pairs of triangles are **similar**. If they are similar, state why and write the similarity ratio.

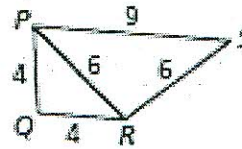
E1)  $\triangle JKL \sim \triangle JMN$



Similarity Ratio: \_\_\_\_\_

Why: \_\_\_\_\_

E2)  $\triangle PQR \sim \triangle PRS$

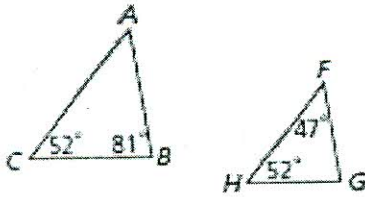


Similarity Ratio: \_\_\_\_\_

Why: \_\_\_\_\_

Determine if the following pairs of triangles are **similar**. If they are similar, state why, write the similarity ratio, and write the similarity statement.

E3)

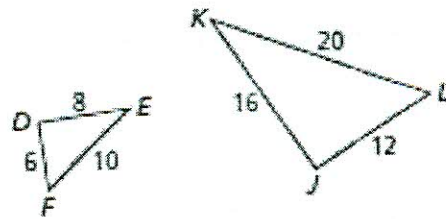


Similar: Y or N      Why: \_\_\_\_\_

Similarity Statement: \_\_\_\_\_ ~ \_\_\_\_\_

Similarity Ratio: \_\_\_\_\_

E4)

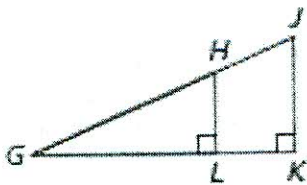


Similar: Y or N      Why: \_\_\_\_\_

Similarity Statement: \_\_\_\_\_ ~ \_\_\_\_\_

Similarity Ratio: \_\_\_\_\_

1.

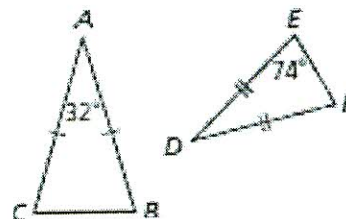


Similar: Y or N      Why: \_\_\_\_\_

Similarity Statement: \_\_\_\_\_ ~ \_\_\_\_\_

Similarity Ratio: \_\_\_\_\_

2.



Similar: Y or N      Why: \_\_\_\_\_

Similarity Statement: \_\_\_\_\_ ~ \_\_\_\_\_

Similarity Ratio: \_\_\_\_\_

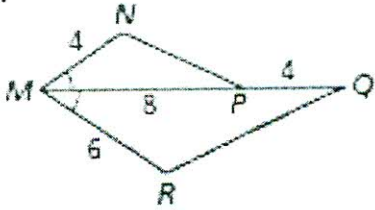
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# Triangle Similarity

1.



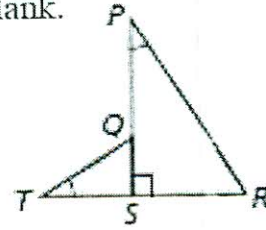
Similar: Y or N      Why: \_\_\_\_\_

Similarity Statement: \_\_\_\_\_ ~ \_\_\_\_\_

Similarity Ratio: \_\_\_\_\_

2.

blank.



Similar: Y or N      Why: \_\_\_\_\_

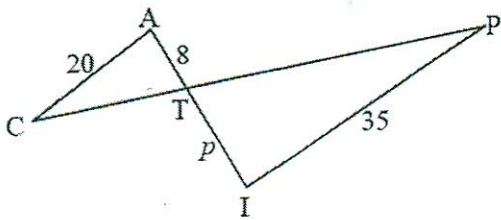
Similarity Statement: \_\_\_\_\_ ~ \_\_\_\_\_

Similarity Ratio: \_\_\_\_\_

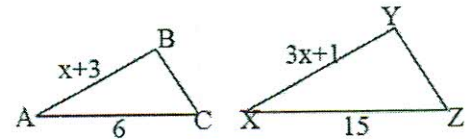
## Solving with Similar Triangles

To solve problem using \_\_\_\_\_ figures set \_\_\_\_\_ angles \_\_\_\_\_ and corresponding \_\_\_\_\_ proportional.

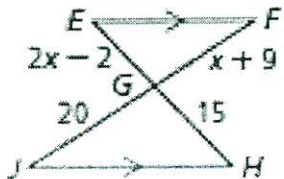
If  $\triangle CAT$  is similar to  $\triangle PIT$ , what is the length of  $p$ ?



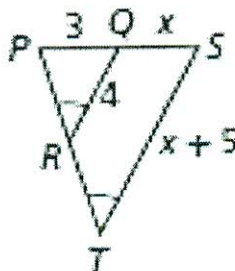
E6)  $\triangle ABC \sim \triangle XYZ$ , find AB.



$\triangle EFG \sim \triangle HJG$ , find FG.



Find PS



What is the length of  $\overline{TU}$ ?

