



IDENTIFYING SIMILAR TRIANGLES

The Weight Room

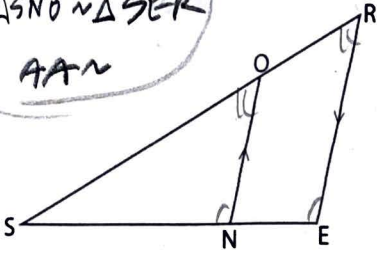
AA Similarity Postulate	SSS Similarity Theorem	SAS Similarity Theorem
If two angles of one triangle are congruent to two angles of another, then the triangles must be similar.	If the lengths of the corresponding sides of two triangles are proportional, then the triangles must be similar.	If an angle of one triangles is congruent to an angle of a second triangle and the lengths of the sides including these angles are proportional, then the triangles must be similar.

DIRECTIONS: Determine whether each pair of triangles is similar according to the information given. If they are congruent, write a similarity statement and the name of the correct similarity postulate or theorem. If not, write "not enough information" or "not similar."

<p>1) AA ~ $\triangle NWK \sim \triangle DIE$</p>	<p>2) $\frac{8}{10} = \frac{4}{5}$ ✓ $\frac{12}{15} = \frac{4}{5}$</p> <p>$\triangle ETA \sim \triangle GUB$ SAS ~</p>
<p>3)</p> <p>$\triangle SLE \sim \triangle LEM$ AA ~</p>	<p>4) $\frac{12}{16} = \frac{3}{4}$ $\frac{9}{13} \neq \frac{3}{4}$</p> <p>NOT SIMILAR</p>

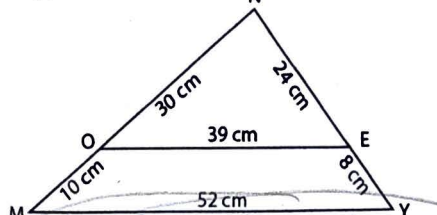
5)

$\triangle SNO \sim \triangle SER$
AA~



6)

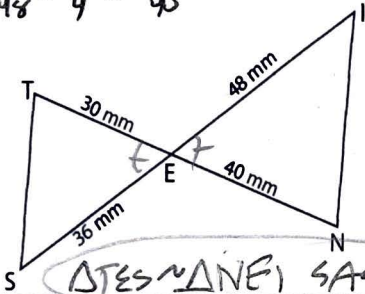
$\frac{30}{40} = \frac{3}{4}$ $\frac{24}{32} = \frac{3}{4}$ $\frac{39}{52} = \frac{3}{4}$



$\triangle MNE \sim \triangle MYE$ SSS~

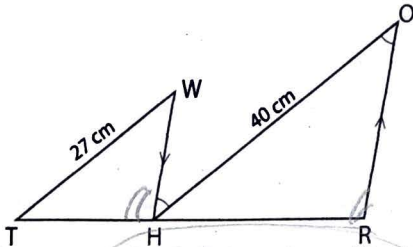
7)

$\frac{36}{48} = \frac{3}{4} = \frac{30}{40}$



$\triangle TES \sim \triangle NEI$ SAS~

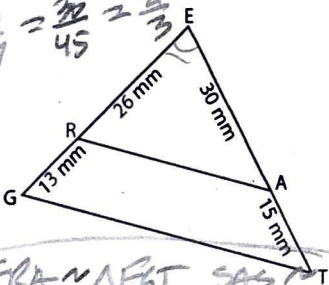
8)



NOT ENOUGH INFO

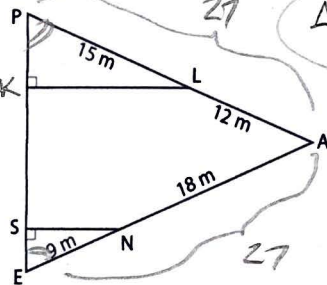
9)

$\frac{26}{39} = \frac{2}{3} = \frac{30}{45}$



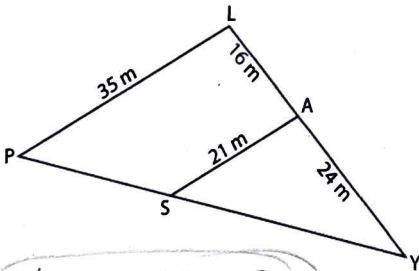
$\triangle ERA \sim \triangle SA$ SAS~

10)



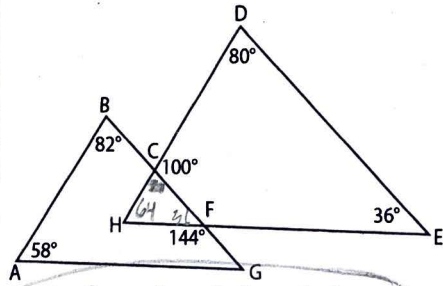
$\triangle PLK \sim \triangle ENS$
AA~

11)



NOT ENOUGH INFO

12)



$\triangle HCF \sim \triangle HDE$ AA~