

Name _____

Mathematics 6

Mrs. Doolan

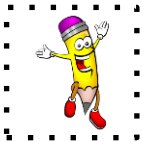
10-7: Similar Figures



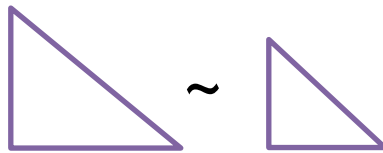
Objective: I'll learn to use proportions to solve for the missing side lengths of similar figures.

Similar: figures having the same shape, but possibly different sizes.

**** The symbol \sim means “is similar to”**



Example:



Note: If two figures are similar, their matching angles have the same measure and their matching sides are proportional.

Congruent: having the same shape and size.

****The symbol \cong means “is congruent to.”**

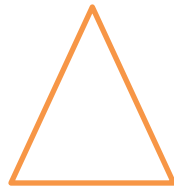
The symbol is made up of two parts:

\sim which means the same shape (similar) and

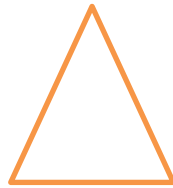
$=$ which means the same size (equal).



Examples:



\cong



means:

AND:



\sim



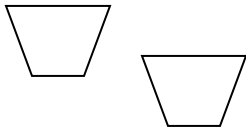
means:



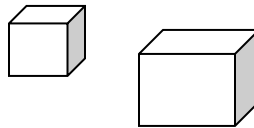
YOU GOT THIS.

1. State whether the polygons appear to be similar, congruent or neither:

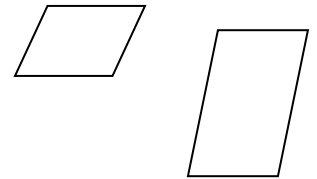
a



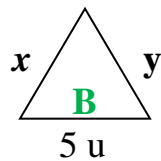
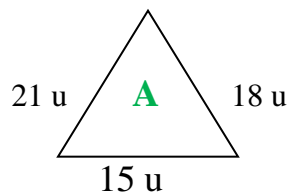
b



c



2. $\triangle A \sim \triangle B$. Find the lengths of sides 'x' and 'y':



x =

y =