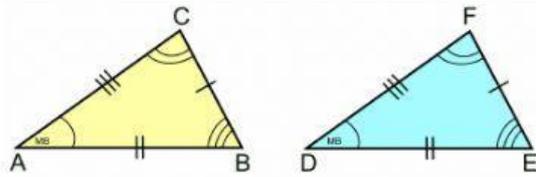


Congruent and Similar Triangles

Congruent Triangles

Congruent triangles are triangles with the same shape and the sides are congruent



Notation: $\triangle ABC \cong \triangle DEF$

Words:

Angles

$$\angle A \cong \angle \underline{\hspace{2cm}}$$

$$\angle B \cong \angle \underline{\hspace{2cm}}$$

$$\angle C \cong \angle \underline{\hspace{2cm}}$$

Sides

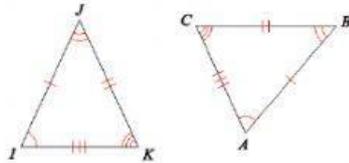
$$AB \cong \underline{\hspace{2cm}}$$

$$BC \cong \underline{\hspace{2cm}}$$

$$CA \cong \underline{\hspace{2cm}}$$

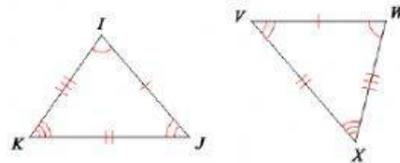
**E
X
A
M
P
L
E
S**

Write the congruence statement



$\triangle \underline{\hspace{2cm}} \cong \triangle \underline{\hspace{2cm}}$

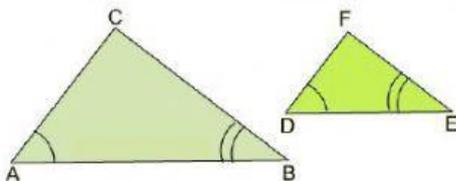
Complete each congruent statement



$IK = \underline{\hspace{2cm}}, KJ = \underline{\hspace{2cm}}, JI = \underline{\hspace{2cm}}$

Similar Triangles

Similar triangles are triangles with the same shape and the sides are proportional



Notation: $\triangle ABC \sim \triangle DEF$

Words:

Scale Factor

(k)

The number by which all the sides are multiple by

Angles

$$\angle A \cong \angle \underline{\hspace{2cm}}$$

$$\angle B \cong \angle \underline{\hspace{2cm}}$$

$$\angle C \cong \angle \underline{\hspace{2cm}}$$

Sides

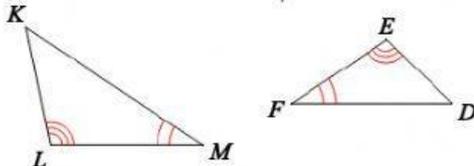
$$AB = \underline{\hspace{2cm}}$$

$$BC = \underline{\hspace{2cm}}$$

$$CA = \underline{\hspace{2cm}}$$

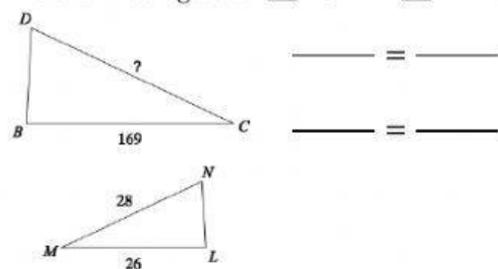
**E
X
A
M
P
L
E
S**

Write the similarity statement



$\triangle \underline{\hspace{2cm}} \sim \triangle \underline{\hspace{2cm}}$

Find the missing side: $\triangle BCD \sim \triangle LMN$



$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$