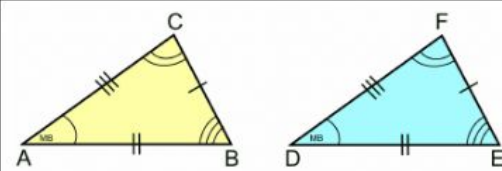


Congruent and Similar Triangles

Congruent Triangles

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



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

Words:

Angles

$$\angle A \cong \angle \underline{\hspace{1cm}}$$

$$\angle B \cong \angle \underline{\hspace{1cm}}$$

$$\angle C \cong \angle \underline{\hspace{1cm}}$$

Sides

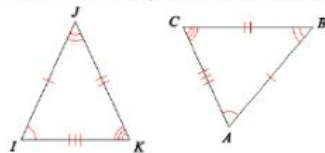
$$AB \cong \underline{\hspace{1cm}}$$

$$BC \cong \underline{\hspace{1cm}}$$

$$CA \cong \underline{\hspace{1cm}}$$

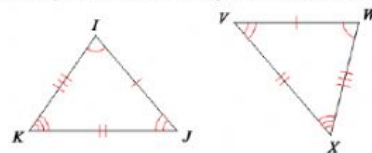
EXAMPLES

Write the congruence statement



$$\triangle \underline{\hspace{1cm}} \cong \triangle \underline{\hspace{1cm}}$$

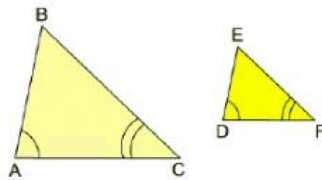
Complete each congruent statement



$$IK = \underline{\hspace{1cm}}, KJ = \underline{\hspace{1cm}}, JI = \underline{\hspace{1cm}}$$

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

$$\angle A \cong \angle \underline{\hspace{1cm}}$$

$$\angle B \cong \angle \underline{\hspace{1cm}}$$

$$\angle C \cong \angle \underline{\hspace{1cm}}$$

Sides

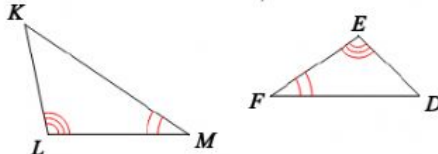
$$AB = \underline{\hspace{1cm}}$$

$$BC = \underline{\hspace{1cm}}$$

$$CA = \underline{\hspace{1cm}}$$

EXAMPLES

Write the similarity statement



$$\triangle \underline{\hspace{1cm}} \sim \triangle \underline{\hspace{1cm}}$$

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

