

# Triangle Correspondence Worksheets

1. The following triangles are identical and have the correspondence  $\triangle ABC \leftrightarrow \triangle YZX$ . Find the measurements for each of the following sides and angles. Figures are not drawn to scale.

$AB =$  \_\_\_\_\_

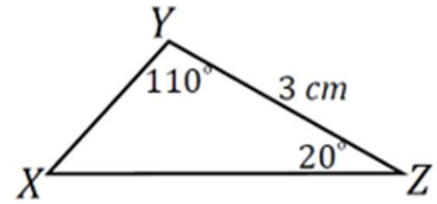
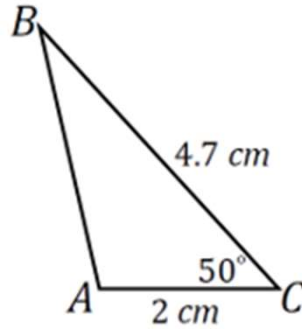
\_\_\_\_\_  $= ZX$

\_\_\_\_\_  $= XY$

$\angle A =$  \_\_\_\_\_

$\angle B =$  \_\_\_\_\_

\_\_\_\_\_  $= \angle X$



2. Explain why correspondences are useful.

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1. The following triangles are identical and have the correspondence  $\triangle ABC \leftrightarrow \triangle YZX$ . Find the measurements for each of the following sides and angles. Figures are not drawn to scale.

$AB = 3 \text{ cm}$

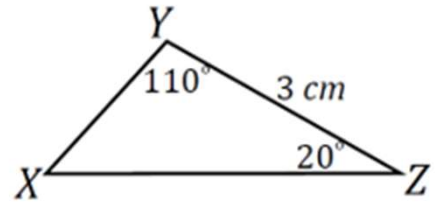
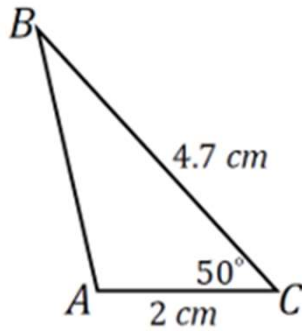
$4.7 \text{ cm} = ZX$

$2 \text{ cm} = XY$

$\angle A = 110^\circ$

$\angle B = 20^\circ$

$50^\circ = \angle X$



2. Explain why correspondences are useful.

*A correspondence offers a systematic way to compare parts of two triangles. We can make statements about similarities or differences between two triangles using a correspondence, whereas without one, we would not have a reference system to make such comparisons.*