# Corollary to the Base Angles Theorem:

If a triangle is equilateral, then it is equiangular.

**5** Find the value of x, y, and z.







Vocabulary

Isosceles

#### Equilateral





# Corollary to the Converse of the Base Angles Theorem:

If a triangle is equiangular, then it is equilateral.

## **G** Find the perimeter of the triangle.



Corollary to the Base Angles Theorem

# Base Angles Theorem:

If two sides of a triangle are congruent, then the angles opposite them are congruent.

#### Find the values of x and y.





# Converse of the Base Angles Theorem:

If two angles of a triangle are congruent, then the sides opposite them are congruent.

Find the value of x.



## Base Angles Theorem & its Converse

## Corollary to the Base Angles Theorem:

If a triangle is equilateral, then it is equiangular.



Isosceles

#### Equilateral



Exactly 2 congruent sides

Exactly 3 congruent sides

# Corollary to the Converse of the Base Angles Theorem:

If a triangle is equiangular, then it is equilateral.

# **G** Find the perimeter of the triangle.



Corollary to the Base Angles Theorem

# Base Angles Theorem:

If two sides of a triangle are congruent, then the angles opposite them are congruent.

Find the values of x and y.



# Converse of the Base Angles Theorem:

If two angles of a triangle are congruent, then the sides opposite them are congruent.

#### Find the value of x.



# Base Angles Theorem & its Converse

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# **Directions**

Print pages 1 & 2 (3 & 4 for the answer key) double sided. On my printer, I use the option to print double sided and to flip along the long edge. If you are printing single sided, and then photocopying, you will need to manually flip the pages. (I recommend making one copy, cut, and fold to ensure you have printed it properly-foldables can sometimes be tricky!)

Have students cut the sheet in half (along the dotted line).

Then, line up the two pieces as shown:



Lastly, fold over the top half and secure with a few staples at the top.

The final product should look like this:

