## Corollary to the Base Angles Gheorem:

 If a triangle is equilateral, then it is equiangular.
## 5 Find the value of $x, y$, and $z$.



Vocerbulerry

## Isosceles



Equilatereal


## Corollerry to the Converse of the Base Angles Gheorem:

If a triangle is equiangular, then it is equilateral.
6 Find the perimeter of the triangle.


## Base Angles Gheorem:

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 Gheorem:

If two angles of a triangle are congruent, then the sides opposite them are congruent.
Find the value of x .
3

4


Betse Angles Gheorem \&its Converse

## Corollary to the Base Angles Gheorem:

 If a triangle is equilateral, then it is equiangular.5 Find the value of $x, y$, and $z$.



Exactly 2
congruent sides

## Equilatereal



Exactly 3
congruent sides

## Corollary to the Converse of the Barse Angles Gheorenn:

If a triangle is equiangular, then it is equilateral.
6 Find the perimeter of the triangle.


Corollary to the Berse Angles Gheorenn

## Base Angles Gheorem:

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 Berse Angles Theorenn:

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

## 3



$$
\begin{gathered}
5 x+7=42 \\
5 x=35 \\
x=6
\end{gathered}
$$

4


$$
\begin{gathered}
8 x+19=12 x+3 \\
19=4 x+3 \\
16=4 x \\
x=4
\end{gathered}
$$

Base Angles Gheorem \& its Converse

## (C) Gisa Davenport 20\%4

## 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:


