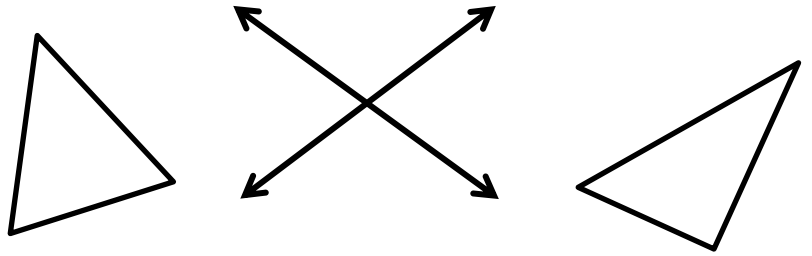
RUBRIC

Name: _____

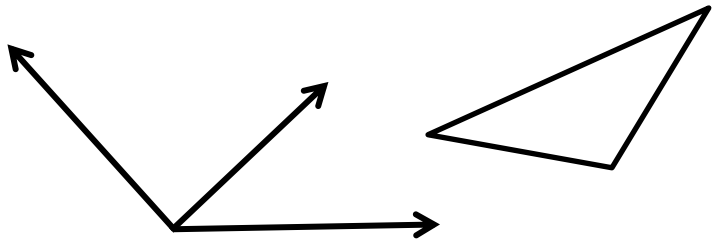
Date: _____ Class: _____

	ABOVE STANDARD	MET STANDARD	BELOW STANDARD
MATHEMATICAL CONTENT	Uses facts about supplementary, complementary, vertical and adjacent angles to write and solve simple equations for an unknown angle in a figure without error ____ points	Uses facts about supplementary, complementary, vertical and adjacent angles to write and solve simple equations for an unknown angle in a figure with few errors ____ points	Uses facts about supplementary, complementary, vertical and adjacent angles to write and solve simple equations for an unknown angle in a figure with several errors ____ points
MATHEMATICAL THINKING	Provides thoughtful reasoning and explanation ____ points	Provides some reasoning and explanation ____ points	Does not provide thoughtful reasoning and explanation ____ points
PARTICIPATION	Participates fully ____ points	Participates with minor redirects from teacher ____ points	Participates with major redirects from teacher ____ points
SHOWS WORK	Shows work for 100% of the questions ____ points	Shows the work for 80% or more of the questions ____ points	Shows work for less than 80% of the questions ____ points
FOLLOWS DIRECTIONS	Follows directions and criteria fully ____ points	Follows directions and criteria with few errors ____ points	Follows directions and criteria with multiple errors. ____ points

TOTAL POINTS : _____



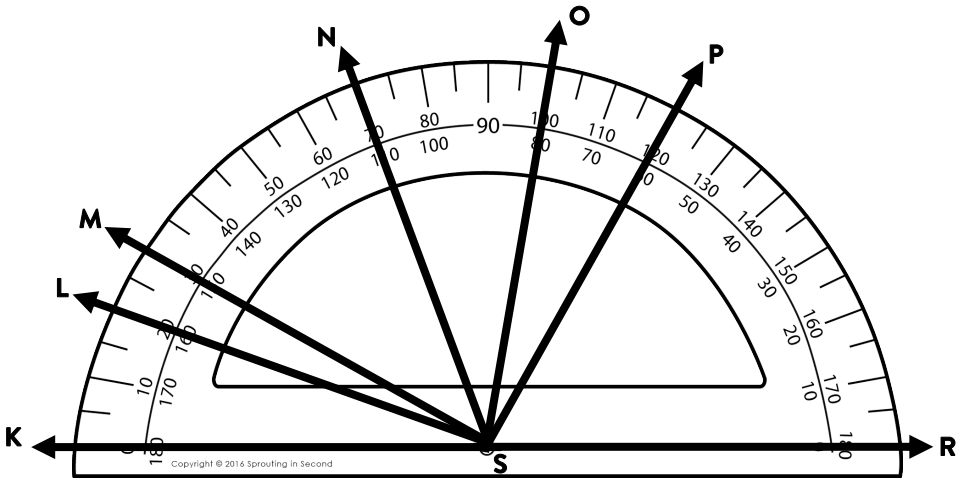
ANGLES AND TRIANGLES



BY: _____

ANGLES

TWO ANGLES ARE SUPPLEMENTARY …



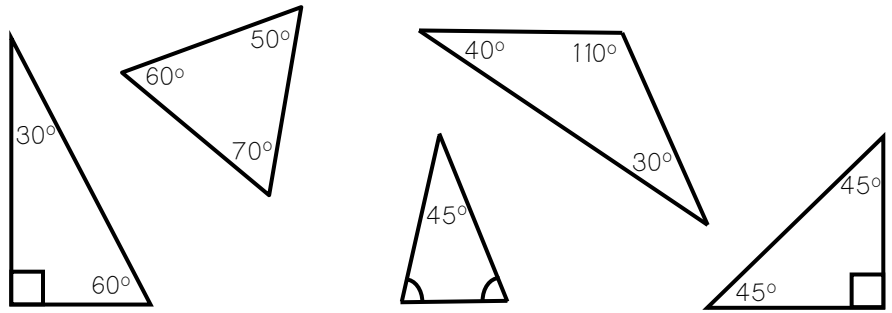
Determine the measure of the angle and its supplement below.

∠ KSL: _____ Supplement to ∠ KSL:	∠ OSR: _____ Supplement to ∠ OSR:
∠ OSP: _____ Supplement to ∠ OSP:	∠ KSN: _____ Supplement to ∠ KSN:

CLASSIFYING TRIANGLES

	CHARACTERISTICS	EXAMPLES
RIGHT TRIANGLE		
ACUTE TRIANGLE		
OBTUSE TRIANGLE		

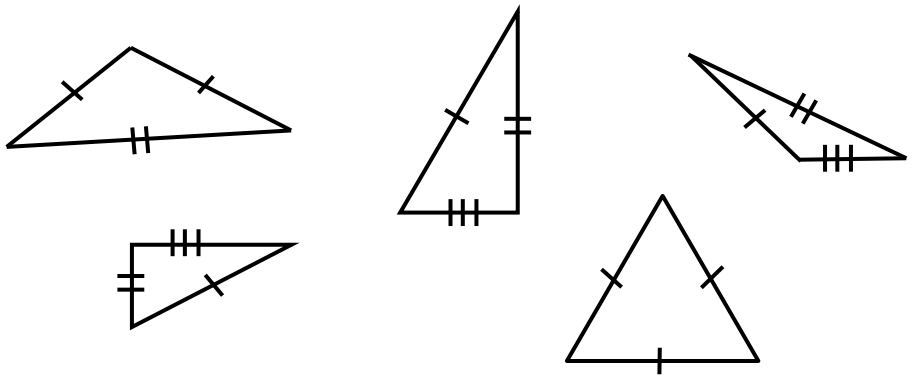
Classify the triangles below based on their angle measure.



CLASSIFYING TRIANGLES

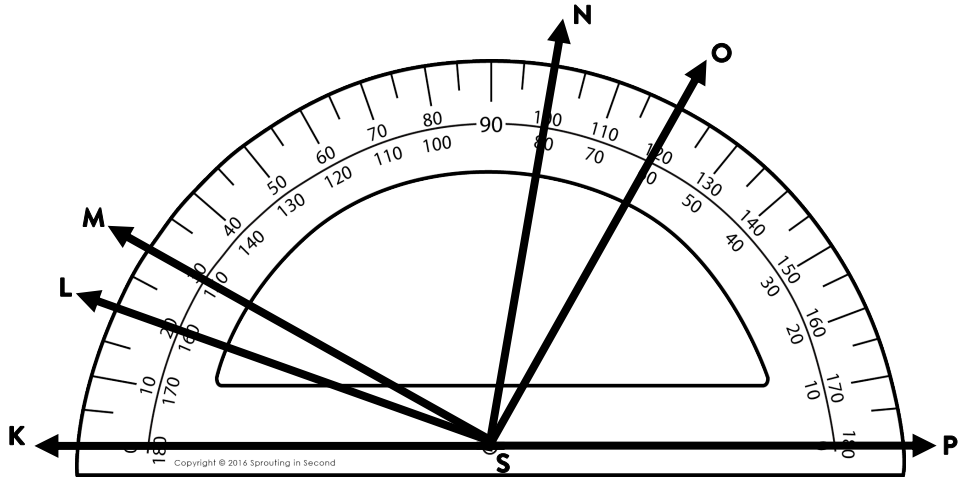
	CHARACTERISTICS	EXAMPLES
EQUILATERAL TRIANGLE		
ISOSCELES TRIANGLE		
SCALENE TRIANGLE		

Classify the triangles below based on their side length.



ANGLES

TWO ANGLES ARE COMPLEMENTARY ...

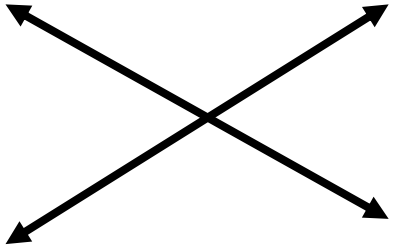


Determine the measure of the angle and its complement below.

∠ KSL: _____ Complement to ∠ KSL:	∠ KSM: _____ Complement to ∠ KSM:
∠ OSP: _____ Complement to ∠ OSP:	∠ MSN: _____ Complement to ∠ MSN:

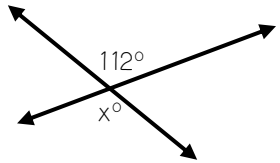
VERTICAL & ADJACENT ANGLES

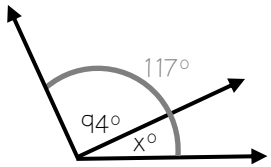
TWO ANGLES ARE VERTICAL …

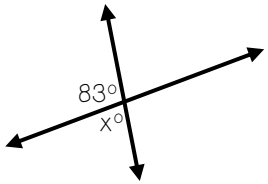


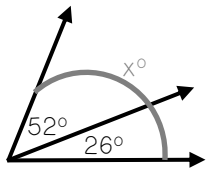
TWO ANGLES ARE ADJACENT…

Determine the value of the angle measures below.









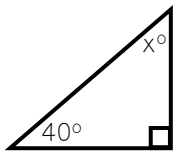
Create your own!

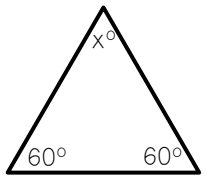
TRIANGLE PROOF

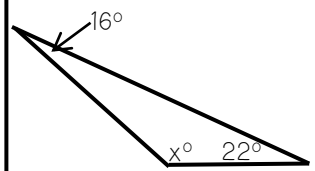
Show the number of degrees in a triangle.

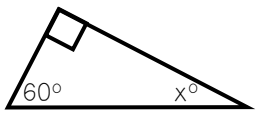
A TRIANGLE HAS…

Determine the missing angle measure in the triangles below.









Create your own!

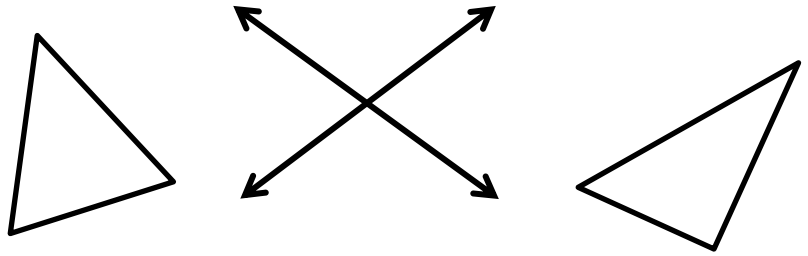
RUBRIC

Name: _____

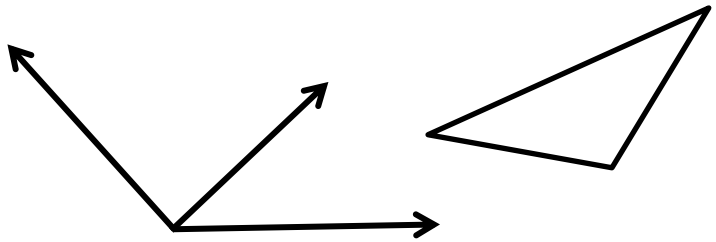
Date: _____ Class: _____

	ABOVE STANDARD	MET STANDARD	BELOW STANDARD
MATHEMATICAL CONTENT	Uses facts about supplementary, complementary, vertical and adjacent angles to write and solve simple equations for an unknown angle in a figure without error ____ points	Uses facts about supplementary, complementary, vertical and adjacent angles to write and solve simple equations for an unknown angle in a figure with few errors ____ points	Uses facts about supplementary, complementary, vertical and adjacent angles to write and solve simple equations for an unknown angle in a figure with several errors ____ points
MATHEMATICAL THINKING	Provides thoughtful reasoning and explanation ____ points	Provides some reasoning and explanation ____ points	Does not provide thoughtful reasoning and explanation ____ points
PARTICIPATION	Participates fully ____ points	Participates with minor redirects from teacher ____ points	Participates with major redirects from teacher ____ points
SHOWS WORK	Shows work for 100% of the questions ____ points	Shows the work for 80% or more of the questions ____ points	Shows work for less than 80% of the questions ____ points
FOLLOWS DIRECTIONS	Follows directions and criteria fully ____ points	Follows directions and criteria with few errors ____ points	Follows directions and criteria with multiple errors. ____ points

TOTAL POINTS : _____



ANGLES AND TRIANGLES

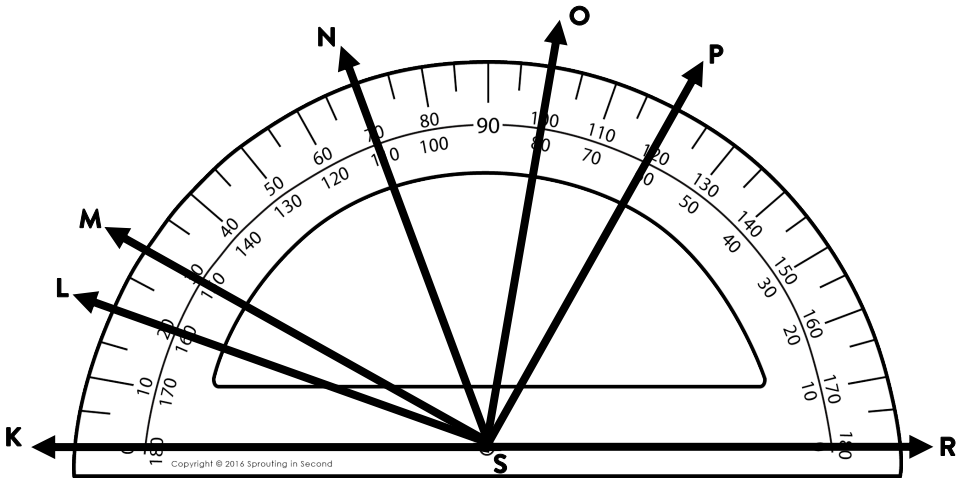


BY: Answer Key

ANGLES

TWO ANGLES ARE SUPPLEMENTARY ...

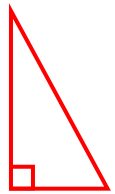
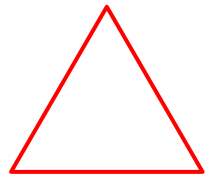
when they have a sum of 180°.



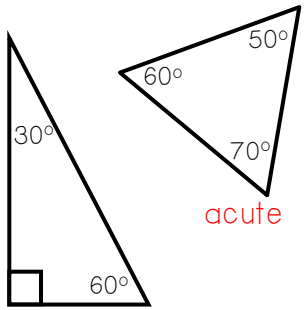
Determine the measure of the angle and its supplement below.

∠ KSL: 20° Supplement to ∠ KSL: ∠ LSR 160°	∠ OSR: 80° Supplement to ∠ OSR: ∠ KSO 100°
∠ OSP: 20° Supplement to ∠ OSP: ∠ LSR 160°	∠ KSN: 70° Supplement to ∠ KSN: ∠ NSR 110°

CLASSIFYING TRIANGLES

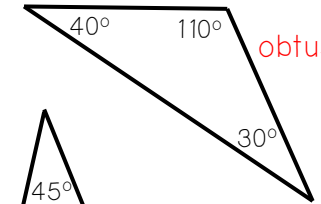
	CHARACTERISTICS	EXAMPLES
RIGHT TRIANGLE	- one right angle (90°)	
ACUTE TRIANGLE	- three acute angles	
OBTUSE TRIANGLE	- one obtuse angle - 2 acute angles	

Classify the triangles below based on their angle measure.



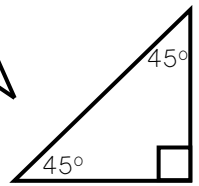
right

acute



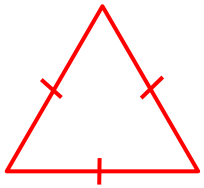
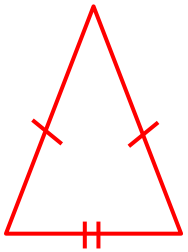
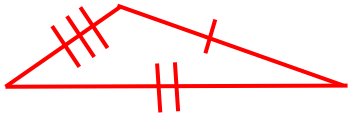
obtuse

acute

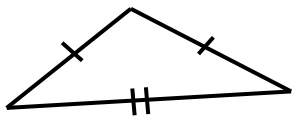


right

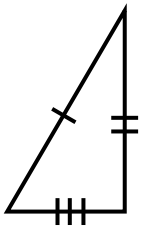
CLASSIFYING TRIANGLES

	CHARACTERISTICS	EXAMPLES
EQUILATERAL TRIANGLE	- three equal side lengths	
ISOSCELES TRIANGLE	- two equal side lengths - third side is called a base	
SCALENE TRIANGLE	- three sides with different lengths	

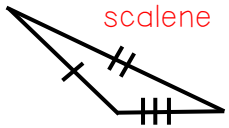
Classify the triangles below based on their side length.



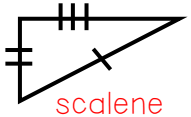
isosceles



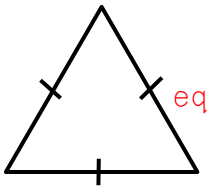
scalene



scalene



scalene

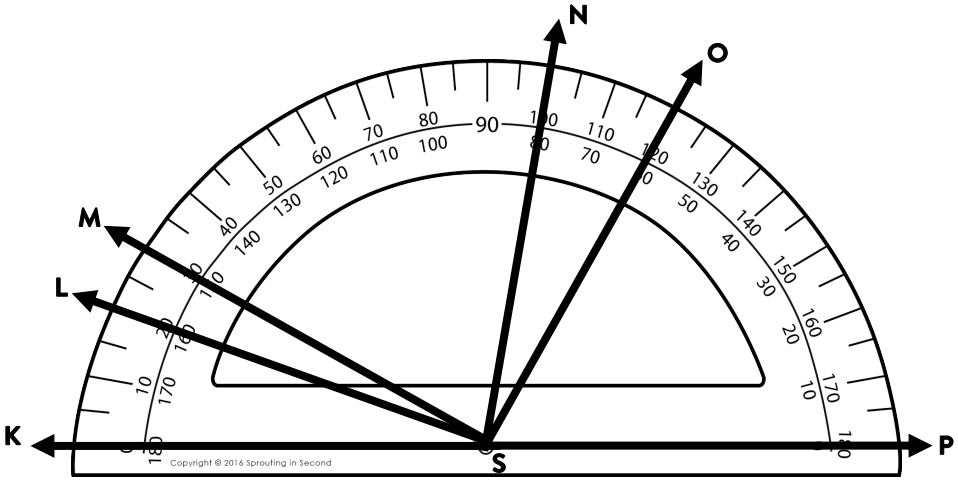


equilateral

ANGLES

TWO ANGLES ARE COMPLEMENTARY ...

when they have a sum of 90°



Determine the measure of the angle and its complement below.

∠ KSL: 20° Complement to ∠ KSL: ∠ MSN 70°	∠ KSM: 30° Complement to ∠ KSM: ∠ OSP 60°
∠ OSP: 60° Complement to ∠ OSP: ∠ KSM 30°	∠ MSN: 70° Complement to ∠ MSN: ∠ NSO 20°

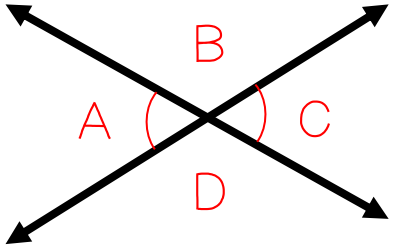
VERTICAL & ADJACENT ANGLES

TWO ANGLES ARE VERTICAL …

if they are opposite angles made by intersecting lines.

angles A and C are vertical angles and congruent

$\angle A \cong \angle C$



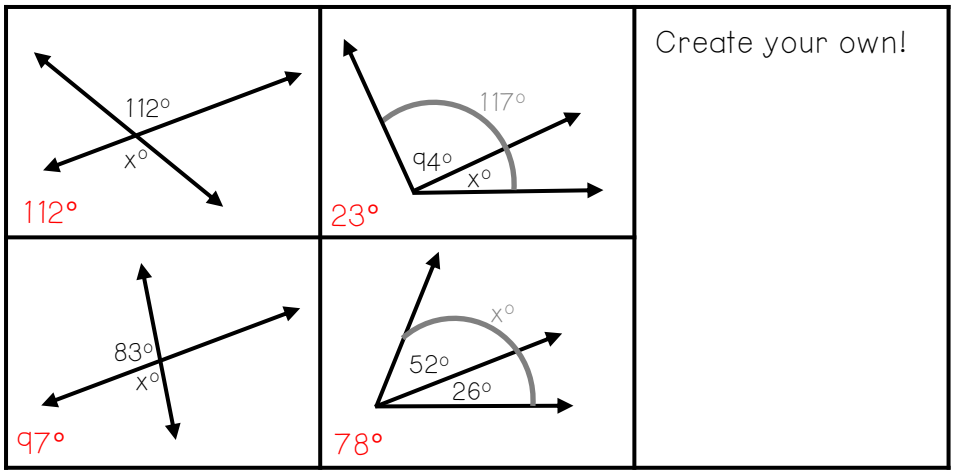
angles C and D are adjacent angles

$\angle C + \angle D = 180°$

TWO ANGLES ARE ADJACENT…

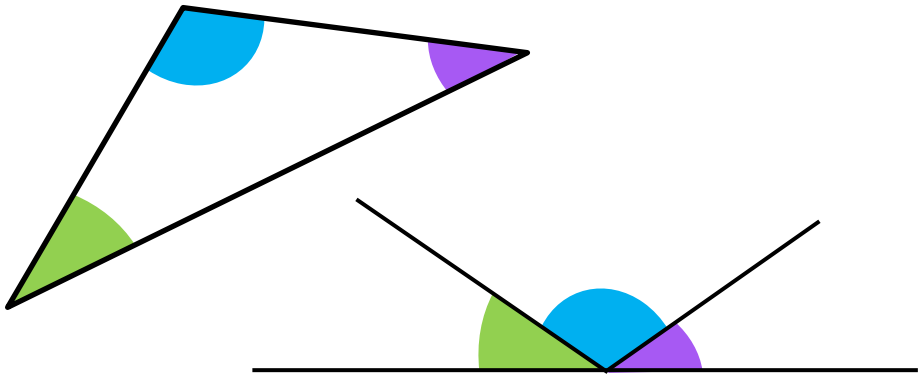
if they have a common side and common vertex.

Determine the value of the angle measures below.



TRIANGLE PROOF

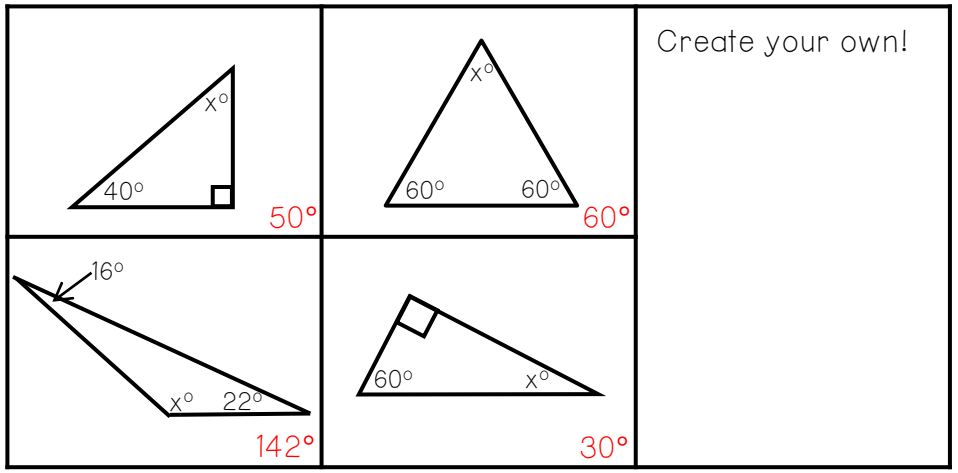
Show the number of degrees in a triangle.



A TRIANGLE HAS…

three sides and three angels that have a sum of 180°.

Determine the missing angle measure in the triangles below.



Triangle Proof

This can be done with any scrap of paper. Note cards work great because the edges are straight.

1. Have students draw a triangle using a ruler. The straighter the edges, the better. Students will then highlight the angles of the triangle in 3 different colors.

2. Discuss that triangles consist of three angles. Have students compare their triangle and the angles they've created with their classmates.

3. Students will then tear off the three angles of the triangle. It is better if the pieces are larger.

4. Have the students arrange the angles to form a straight line. They should be able to determine that there are 180° in a triangle.