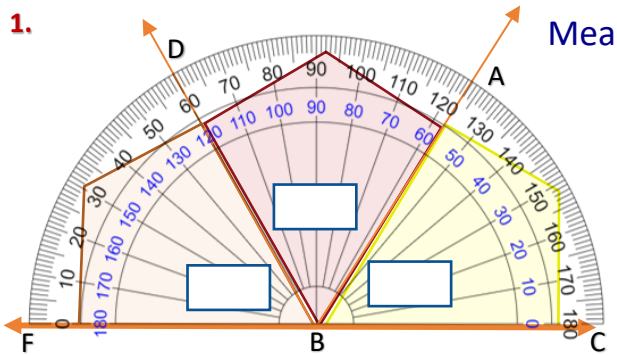
Lesson # 40

Classifying Triangles

Date

Warmup

1.



Measure and Classify each angle.

<ABC = _____

_____

<ABD = _____

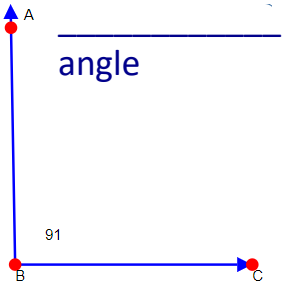
_____

<DBF = _____

_____

2.

<ABC is a(n) _____ angle



3. Write the word for each definition:

_____ Two or more angles whose sum is 180^o

_____ Equal in measure

_____ An angle with a measurement of 90 degrees

_____ An angle with a measurement of exactly 180 degrees

_____ Two or more angles whose sum is 90^o

_____ A polygon with three sides

_____ An angle with a measurement less than 90^o

_____ An angle with a measurement greater than 90^o and less than 180^o

_____ A simple closed figure in a plane formed by three or more line segments.

Lesson # 40

Classifying Triangles

Date

I. Angles of a Triangle

II. Classify Triangle by their Angles

III. Classify Triangle by their Sides

Homeschool Honor Roll
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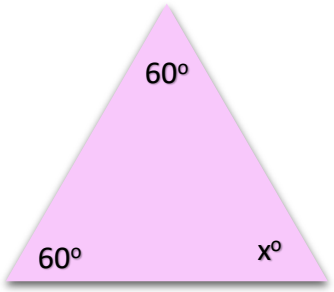
Pre-Algebra and Geometry I
Wendy Harper
www.HsHonorRoll.com

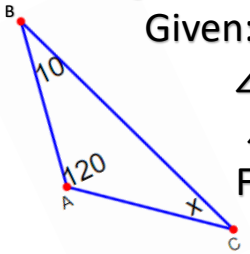
I. Angles of a Triangle



Angles of a Triangle:

The sum of the angles of a triangle is 180°

4. Triangle ABC is not drawn to scale.



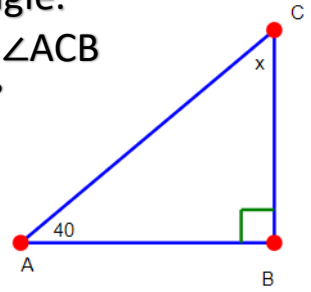
Given: Triangle ABC

∠A = 120

∠B = 10

Find: ∠C

5. ∠ ABC is a right angle.
Find the measure of ∠ACB
given that ∠CAB=40°



6-8.

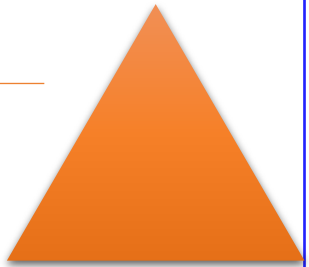
I. Classifying Triangles by their angles

Acute Triangle:
A triangle with three acute angles.

Right Triangle: **A triangle with one right angle.**

Obtuse Triangle: **A triangle with one obtuse angle.**

Classify the triangles by their angles:



9. Triangle ABC is not drawn to scale.

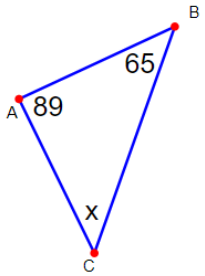
Given: Triangle ABC

$\angle A = 89$

$\angle B = 65$

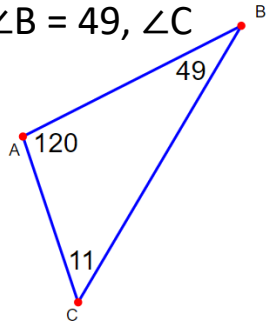
Find: $\angle C$

Classify the triangle



10. Given: Triangle ABC, $\angle B = 49$, $\angle C = 11$, and $\angle A = 120$

Classify the triangle



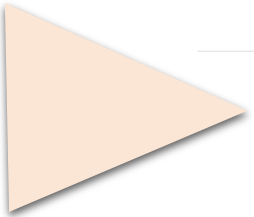
III. Classify Triangle by their sides

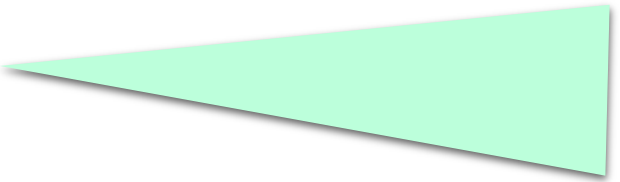
Scalene Triangle: A triangle with three sides of unequal measurement

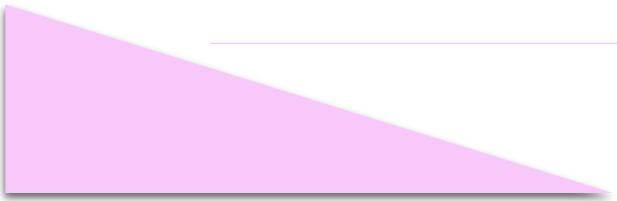
Isosceles Triangle: A triangle with two congruent sides

Equilateral Triangle: A triangle with (all) three congruent sides

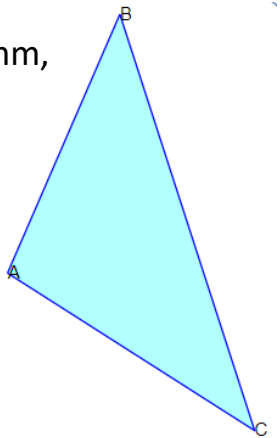
Classify the triangles by their sides:



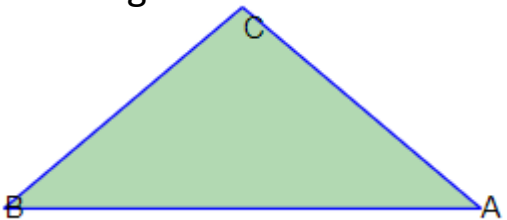


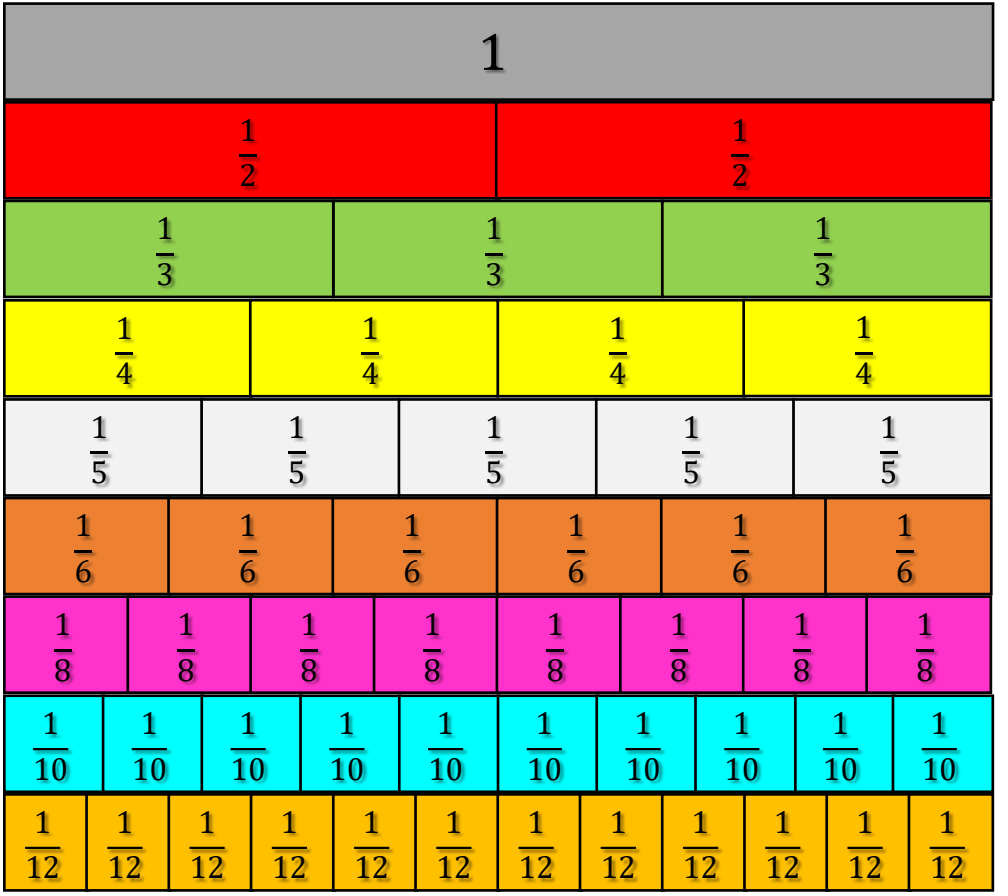


14. Given: Triangle ABC
AC=5780 mm, BC=28615 mm,
and AB =4946 mm
Classify the triangle using
the lengths of the sides.



15. Given: Triangle ABC
AC=5 inches, BC=5 inches,
and AB = 8 inches
Classify the triangle.

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1/3 1/3 1/3
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1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8
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