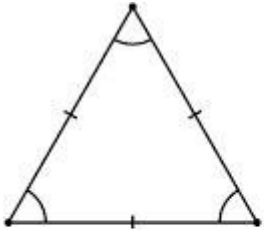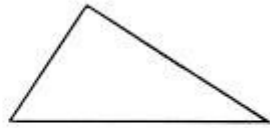# 2-D SHAPES 3

Triangles have special features. They can be classified by sides and angles.
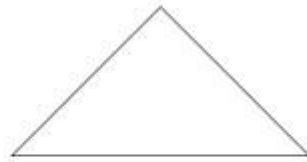
CLASSIFICATION ACCORDING TO LENGTH OF SIDES

equilateral
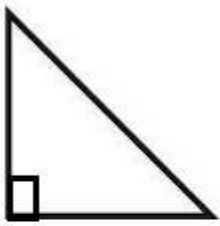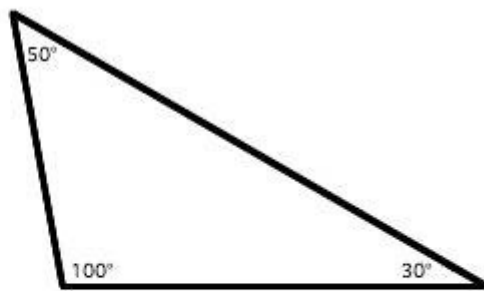3 congruent
sides

scalene
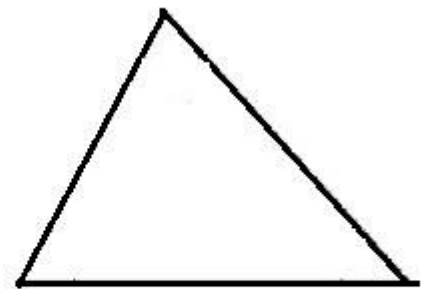no congruent
sides

isoceles
2 congruent sides

CLASSIFICATION ACCORDING TO INTERNAL ANGLES

right

1 right angle

obtuse

1 obtuse angle

acute

3 acute angles

The **right angle** is 90 degrees. The longest side of the right angle triangle is called the **hypotenuse**.

An **obtuse angle** is more than 90 degrees (but less than 180 degrees) and an **acute angle** is less than 90 degrees.

INDIVIDUAL ACTIVITY:

Copy a shape on a card. Name it. Cut it into smaller shapes and specify the number of smaller shapes. Determine if the lines are congruent.

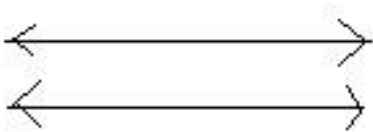## EXERCISES

1. QUESTION

Name and classify the angles.

Name: _____ _____ _____ _____

Angle in degrees: _____ _____ _____ _____
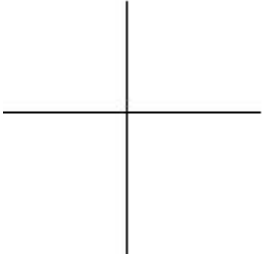
2. QUESTION
What kind of lines are these?

3. QUESTION
A triangle that has one angle that is more than 90°, but less than 180° is called _____.

☐ right-angled triangle
☐ acute-angled triangle
☐ obtuse- angled triangle

4. QUESTION

What kind of lines are these?

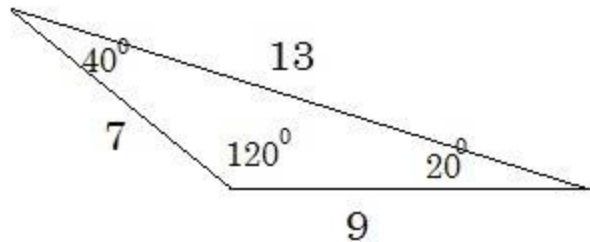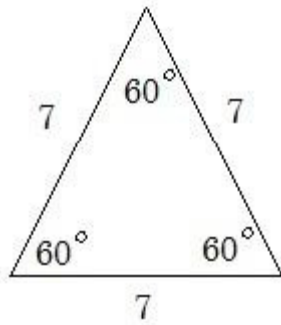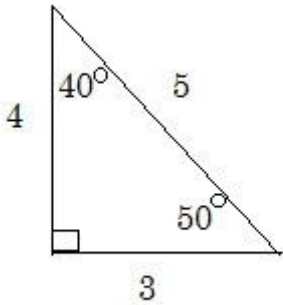☐ Intersecting lines   ☐ perpendicular lines   ☐ parallel lines

5. QUESTION

Classify each triangle by its sides and angles.

Example:
sides: equilateral or scalene or isoceles
angles: acute or right or obtuse

Sides:_____   Sides: _____   Sides: _____

Angles: _____   Angles: _____   Angle: _____

www.studyassistant.org