Interactive Journal #9

Investigating Angles in Triangles

Materials: copy paper, construction paper, pen scissors, glue, protractor

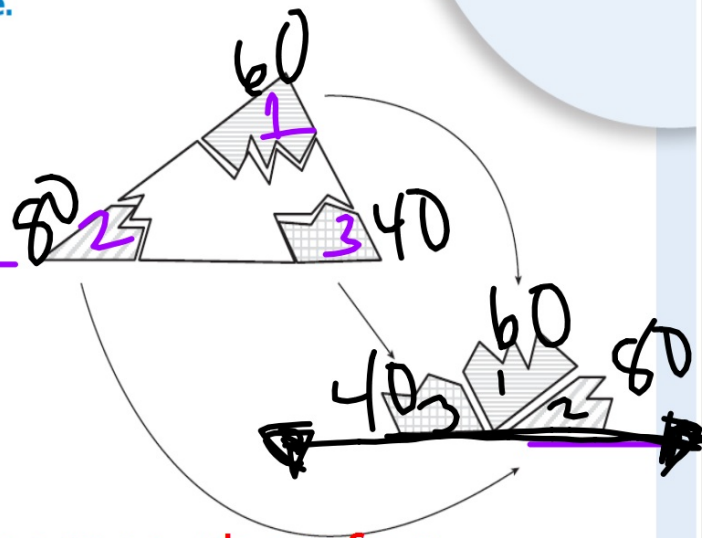# Angle Relationships in Triangles
Focus on Reasoning

Essential question: *What are some theorems about angle measures in triangles?*
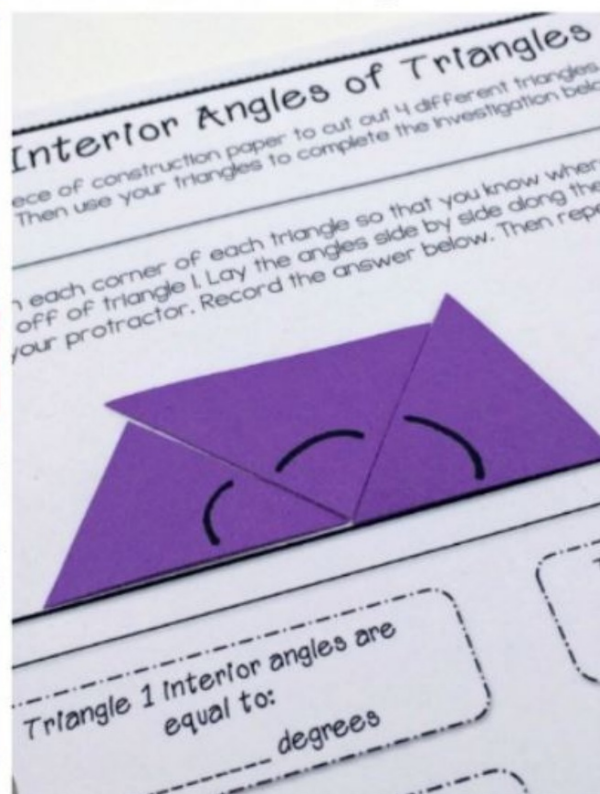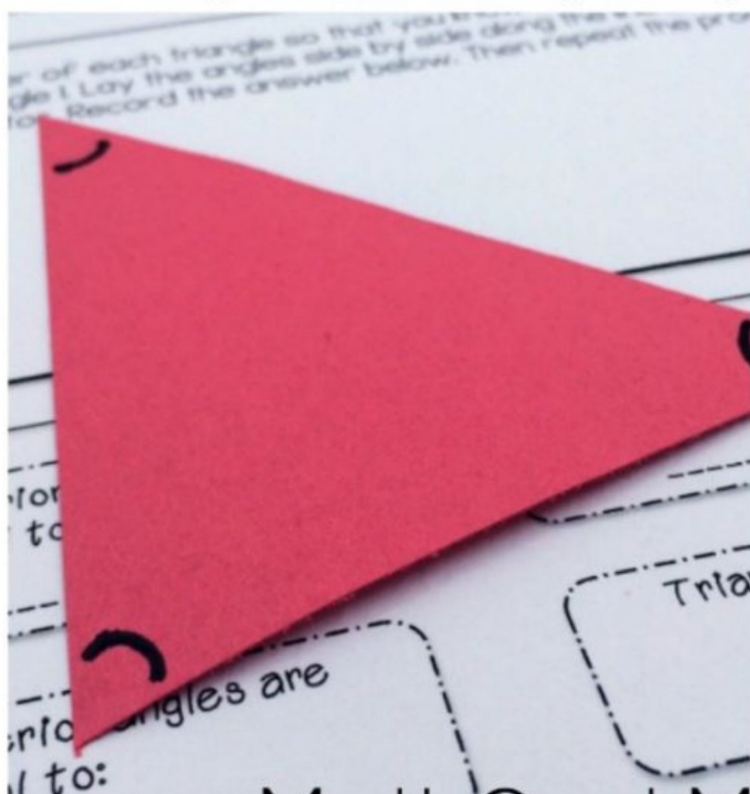
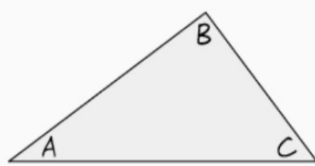**1** **Investigate the angle measures of a triangle.**

A Use a straightedge to draw a large triangle on a sheet of paper.

B Cut out the triangle.

C Tear off the angles of the triangle.

D Place the angles together so their sides are adjacent and their vertices meet at a point. Take note of how the angles come together.

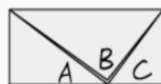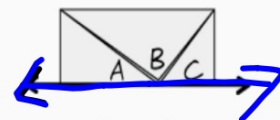*A straight line is 180 degrees, therefore there is 180 degrees in a triangle.

r of each triangle so that you k...
le I. Lay the angles side by side along the...
Record the answer below. Then repeat the pro...

ece of construction paper to cut out 4 different triangles.
Then use your triangles to complete the investigation belo...

n each corner of each triangle so that you know where
off of triangle I. Lay the angles side by side along the
your protractor. Record the answer below. Then repe...

or
t to

rio angles are
to:

Tria

Triangle 1 interior angles are
equal to:
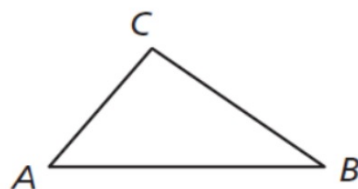degrees

Proof:

Step 1

Step 2

Step 3

Step 4

The Triangle Sum Theorem

The sum of the angle measures in a triangle is 180°.

$$m\angle A + m\angle B + m\angle C = 180°$$