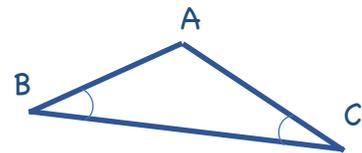


Warm up

Angle A ($\angle BAC$) is 120° and angles B ($\angle ABC$) and C ($\angle ACB$) are congruent. What is angle B ($\angle ABC$)?

- A. 30°
- B. 60°
- C. 120°
- D. 180°



Triangle postulate

The three internal angles of a triangle add up to _____

Triangles - Sides

Fill in the blanks using the words at the bottom

The side length of a triangle corresponds with the angle measure _____ the side.

Ex: Triangle ABC is shown at right.

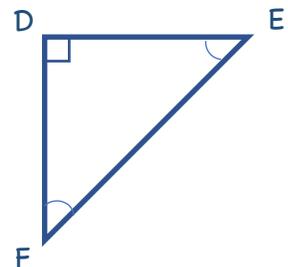
$\angle A$ is the _____ angle and line BC is the _____ side.

$\angle B$ is the _____ angle and line AC is the _____ side.



Ex: Triangle DEF is shown at right.

$\angle E$ and $\angle F$ have the _____ (congruent) angles
and line DE and DF have the same (_____) lengths.



In these two triangles, ABC and DEF:

$\angle A$ corresponds to side _____ (opposite the angle).

$\angle B$ _____ to side AC (opposite the angle).

_____ corresponds to side DE (opposite the angle).

$\angle E$ corresponds to side _____ (opposite the angle).

($\angle C$, BC, Congruent, Corresponds, DF, $\angle F$, Largest, Longest, Opposite, Same, Shortest, Smallest)

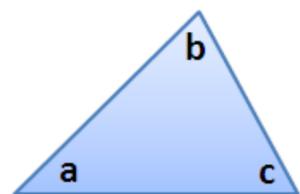
Triangle Inequality Theorem

If the sum of the two shortest sides is greater than the third side, then the lengths will form a triangle.

IF a triangle ABC has side lengths of $AB = 7$ cm and $AC = 9$ cm

Side BC must be longer than ($<$) _____

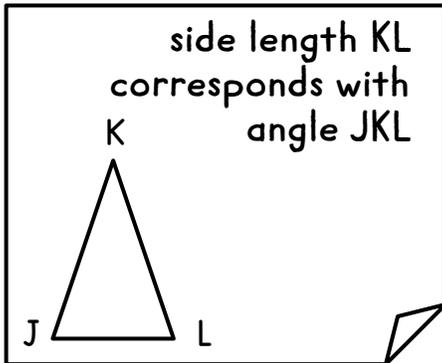
& shorter than ($<$) _____



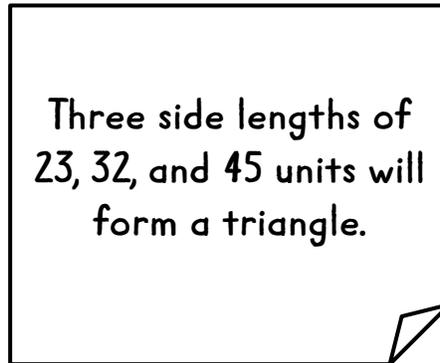
SIDE LENGTHS OF A TRIANGLE

Students were asked to create true statements about side lengths of triangles. Circle the names of the students who correctly completed the task. Then, unscramble the underlined letters of the circled names to answer the riddle at the bottom.

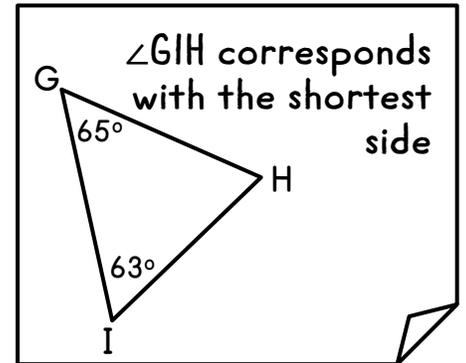
BETHANY



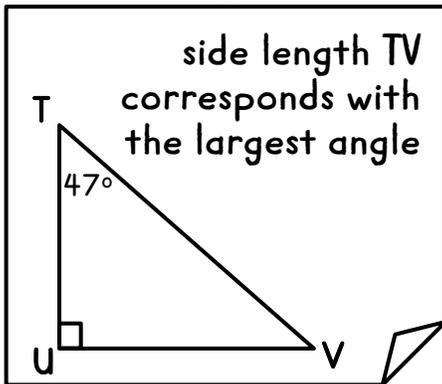
ISAIAH



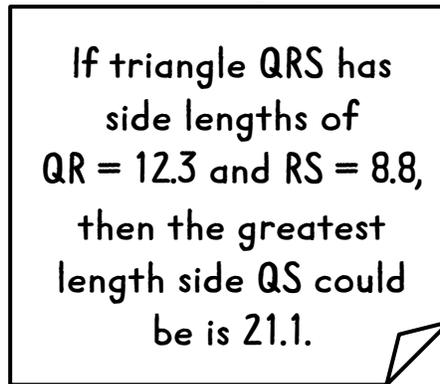
PABLO



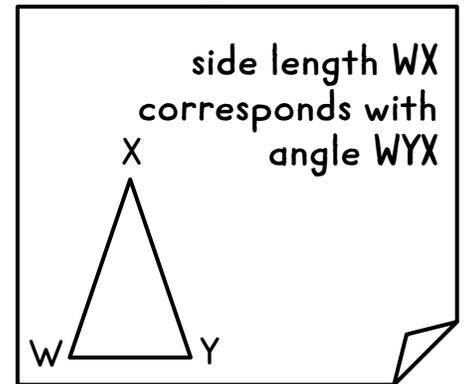
QUINN



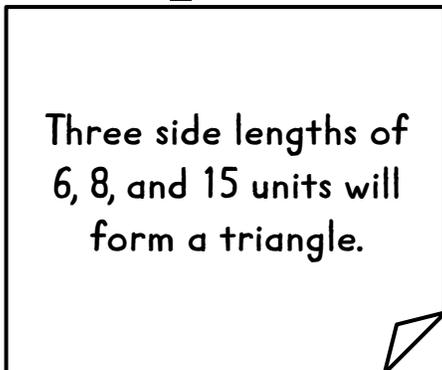
APRIL



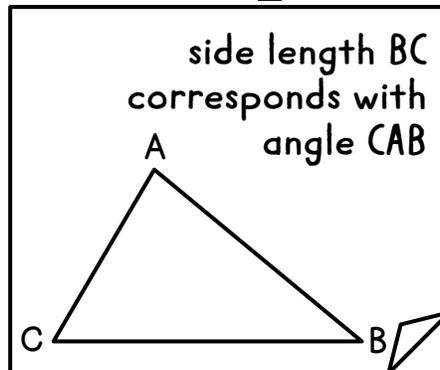
TROY



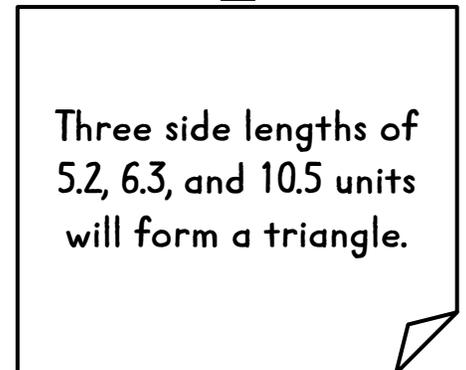
TRENT



SAMANTHA



MEGAN



WHAT KIND OF TRIANGLE IS NEVER WRONG?
