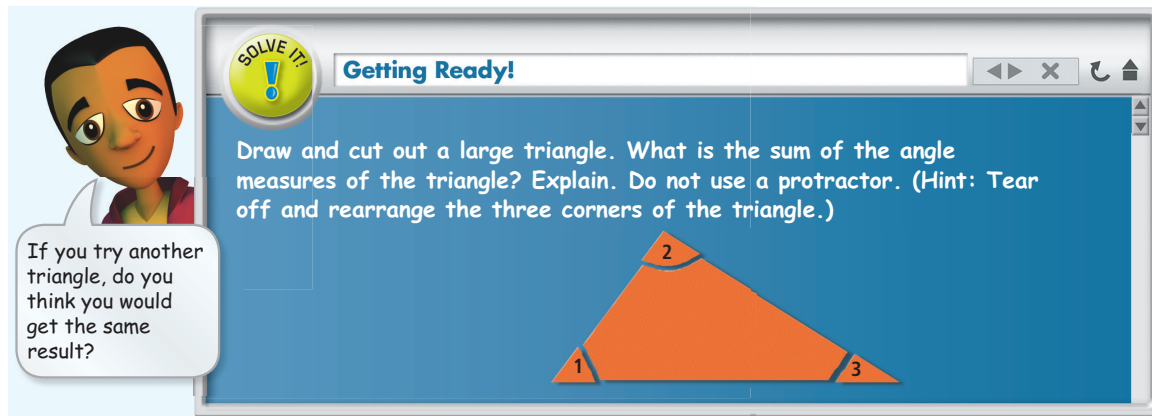


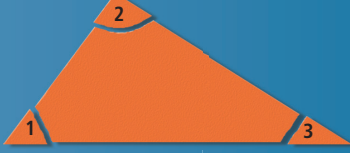
3-5 Solve It!



SOLVE IT! Getting Ready!

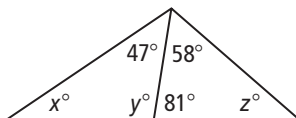
Draw and cut out a large triangle. What is the sum of the angle measures of the triangle? Explain. Do not use a protractor. (Hint: Tear off and rearrange the three corners of the triangle.)

If you try another triangle, do you think you would get the same result?

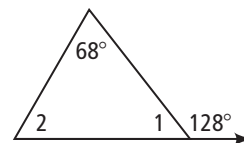


3-5 Lesson Quiz

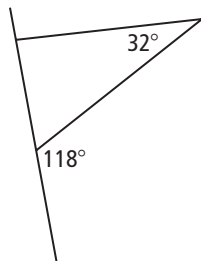
1. Solve for x , y , and z in the figure below.



2. What are the measures of $\angle 1$ and $\angle 2$?



3. **Do you UNDERSTAND?** Neko made a triangular flag shown below. He wanted to attach it to the stick and then trim off the extra fabric so the flag would form an isosceles triangle. By how many degrees was he off when he attached the triangle to the stick?



Answers

Solve It!

180; the corners of the triangle fit together to make a straight angle. The measure of a straight angle is 180.

Lesson Quiz

1. $x = 34$, $y = 99$, $z = 41$
2. $m\angle 1 = 52$, $m\angle 2 = 60$

3. Neko's flag ended up with base angles of 86° and 62° , so his stick was 12° out of alignment from the correct position (both angles 74°).