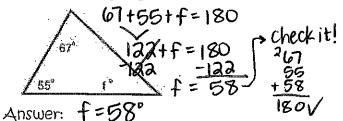
Practice: Interior Angles of a Triangle

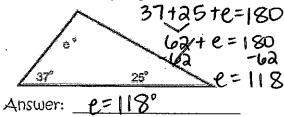
4.

8.

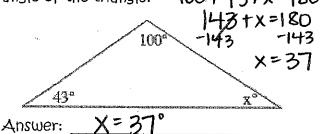
Find the missing angle.



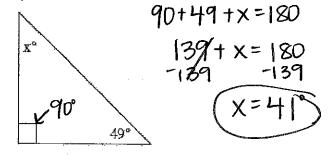
3. Find the missing angle.



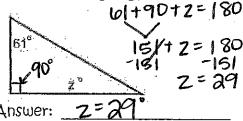
5. Find the number of degrees in the third 6. angle of the triangle. 100+43+x=180



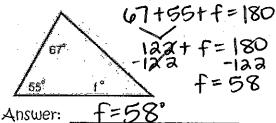
7. There is a slide in the back of the school. A ladder is used to climb to the top of the slide. The angle made with the slide and the ground is 49°. What is the value of x?



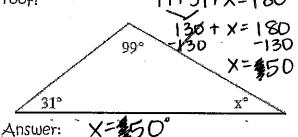
Find the missing angle.



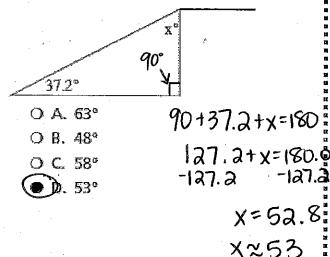
Find the missing angle.

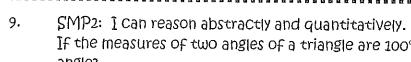


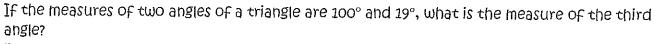
An architect is designing a home. What is the measure of the missing angle of the roof? 99+3|+x=180



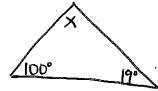
A ramp is built to a building to help with deliveries. The angle that the bottom of the ramp makes with the ground is 37.2°. Estimate the measure of the other acute angle.







Draw a picture and show your work.



$$190+19+x=180$$

 $-1197+x=180$
 -119
 -119
 -119

10. SMP2: I can reason abstractly and quantitatively.

Explain how a straight angle is related to the angles of a triangle.

Both the angles of a triangle (added together) and the measure of a straight angle are equal to 180°.

11. SMP3: I can critique the reasoning of others.

On a math test, the students are given a right triangle. One of the acute angles has a measure of 55° One student says the measure of the other acute angle is 125°. His teacher marked the answer wrong. What is the correct measure of the other acute angle?

right triangle= has a 90° angle. acuteangle= less than 90°

90+55+ X=180 148+ X=180 (

X = 35°

What error might the student have made?

- A. The student only subtracted the right angle from 180°
- B. The student subtracted the sum of the two given angles from 360°
- C. The student added the right angle and the given acute angle, but did not subtract the sum from 180°.
- D. The student only subtracted the acute angle from 180°.

12. SMP: I can model with mathematics.

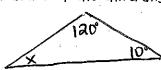
Draw a picture of each scenario below and then give the measure of the missing angle.

Scenario 1: In an acute triangle, the measures of the two angles are 50° and 60°. What is the measure of the third angle?

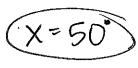


(X=70°)

Scenario 2: In an obtuse triangle, the measures of two angles are 120° and 10°. What is the measure of the third angle?



$$120+10+x=180$$
 $130+x=180$
 -130



Scenario 3: One acute angle of a <u>RIGHT</u> triangle measures 35°. What is the measure of the other acute angle?



