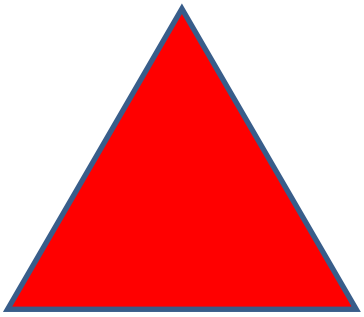
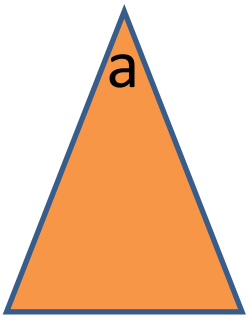
Name: _____ Date: _____

The internal angles of any triangle add up to 180˚. The triangles are not drawn to scale so you will not be able to measure the angles!

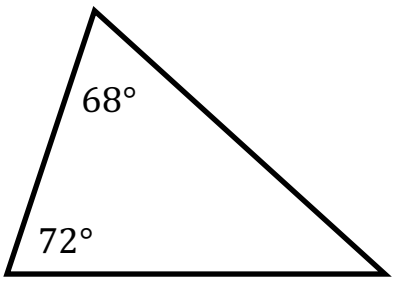


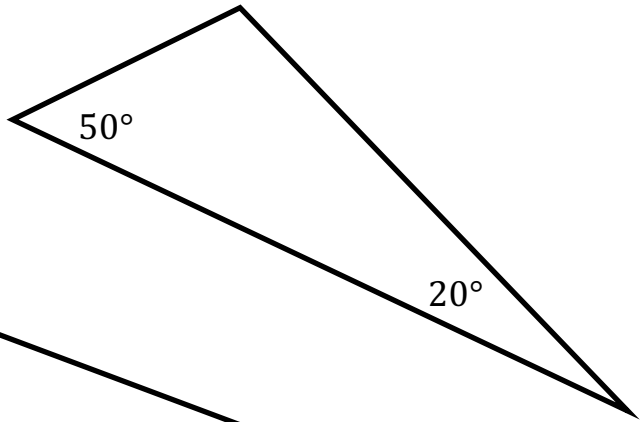
This is an equilateral triangle – all three sides are the same and all three angles are the same. Therefore each internal angle is _____ degrees.

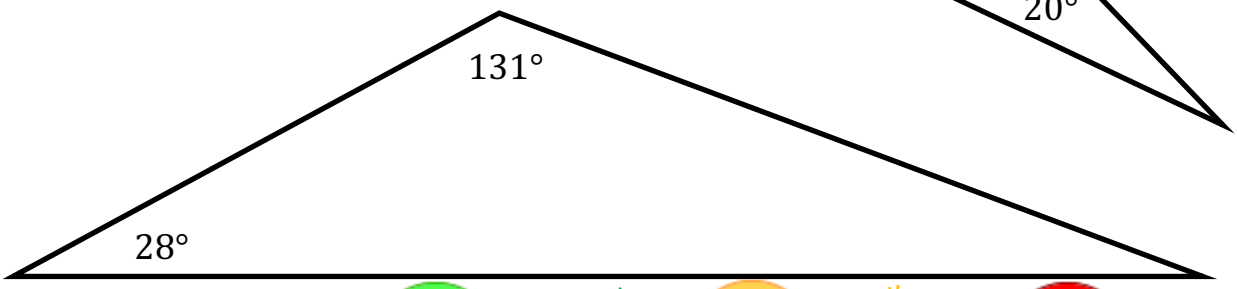


An isosceles triangle has two equal sides and two equal angles. If angle a = 42˚ then the other two angles in the triangle will each be _____ degrees.

Calculate the missing internal angles in these triangles:







I can find the missing angles with a triangle

I can do this!

I'm getting there.

I need help!

Answers

- Each internal angle is 60˚
- Isosceles triangle: The two equal angles will be 138 ÷ 2 = 69˚
- 68 + 72 = 140 therefore the missing angle is 180 - 140 = 40˚
- 50 + 20 = 70 therefore the missing angle is 180 - 70 = 110˚
- 131 + 28 = 159 therefore the missing angle is 180 - 159 = 21˚