Lesson 1

L.O I am learning to find angles in a triangle (special cases)
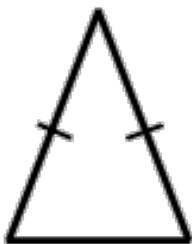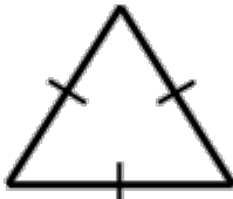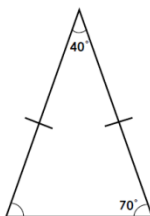
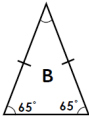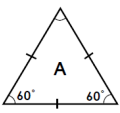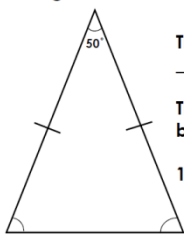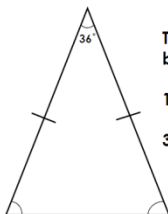| All	All of you **must** complete the **fluency** section.
Most	Most of you **will** complete the **fluency** and **reasoning** sections.
Some	Some of you **will** complete the **fluency, reasoning,** and **problem-solving** sections.
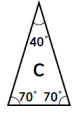
Try your best – it is all we can ask for! 😊

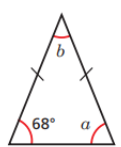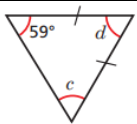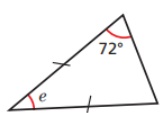| This video may help if you are stuck at any point:
https://corbettmaths.com/2012/08/10/angles-in-a-triangle/ |
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Fluency

Key vocabulary: Angles, triangle, degrees, isosceles, scalene, equilateral, interior, hash marks and right angle.	Your answer
Fill in the missing gaps **There are _____ interior angles in a triangle.** **All angles in a triangle have a total sum of _____ degrees.**	
What type of triangle is this? Explain how you know. 	
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What type of triangle is this? Explain how you know. 	
3a. Fill in the missing details about this triangle. This is an _____ triangle. The missing angle is _____ degrees.	

5a. Match each triangle to the best description. 1. This triangle has a missing 50 degree angle marking. 2. This triangle is missing equal length side markings. 3. This triangle is missing a 60 degree angle marking. A (60°, 60°) B (65°, 65°) C (40°, 70° 70°)	Match the description to the lettered shape. 1 = 2= 3=
6b. Fill in the missing details about this triangle. (50°) This triangle has _____ equal sides. The missing angles are both _____ degrees. $180 = 50 + \_\_\_ + \_\_\_$	
9b. Fill in the missing details about this triangle. (36°) The missing angles are both _____ degrees. $180 = 36 + \_\_\_ + \_\_\_$ $36 + \_\_\_ + \_\_\_ = 180$	

Reasoning
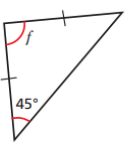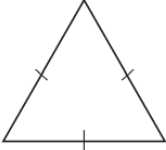
Key vocabulary: Angles, triangle, degrees, isosceles, scalene, equilateral, interior, hash marks and right angle.	**Your answer**
a) b $68°$ a $a =$ [ ] $b =$ [ ]	a= b=
$59°$ d c $c =$ [ ] $d =$ [ ]	c= d=
c) $72°$ e $e =$ [ ]	e=
d) f $45°$ $f =$ [ ]	f=

Problem Solving

Key vocabulary: Angles, triangle, degrees, isosceles, scalene, equilateral, interior, hash marks and right angle.	**Your answer**
An isosceles triangle has one angle of <u>84º</u>. **Write down the possible size of the other two angles in the triangle.**	Pair 1 .... and .... degrees
7b. Aisha says, I have drawn an isosceles triangle. The angles are 45 degrees, 45 degrees and 80 degrees. It has 2 equal length sides and one shorter side Could she be correct? Explain why or why not.	

Extension

Key vocabulary: Angles, degrees, isosceles, scalene, equilateral, interior, hash marks and right angle.	**Your answer**
Whitney and Jack are working out the angles in this triangle. I can't work out the angles in this triangle because I don't know any of them. Whitney I know the size of all the angles in this triangle. Jack **Explain how Jack would know the angles in this triangle.**	