Vocabulary **Apply the vocabulary from this lesson to answer each question.**

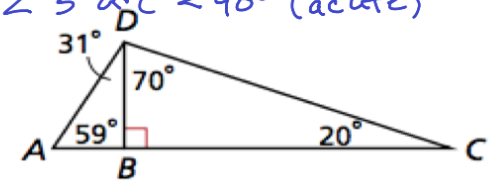
1. In $\triangle JKL$, JK, KL, and JL are *equal*. How does this help you classify $\triangle JKL$ by its side lengths?

All = sides → Equilateral △

2. $\triangle XYZ$ is an *obtuse* triangle. What can you say about the types of angles in $\triangle XYZ$?

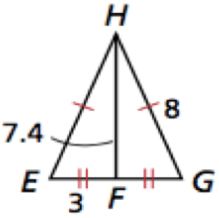
1 angle is >90° (obtuse) 2 ∠'s are <90° (acute)

Classify each triangle by its angle measures.



3. $\triangle DBC$ right △ m∠DBC=90°
4. $\triangle ABD$ right △ m∠ABD=90°
5. $\triangle ADC$ obtuse △ m∠ADC=101°

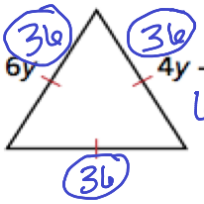
Classify each triangle by its side lengths.



6. $\triangle EGH$ HE ≅ HG Isoc. △
7. $\triangle EFH$ NO ≅ sides scalene △
8. $\triangle HFG$ NO ≅ sides scalene △

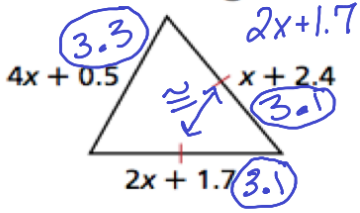
Multi-Step **Find the side lengths of each triangle.**

9.



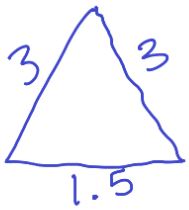
6y = 4y + 12
y = 6

10.



2x + 1.7 = x + 2.4
x = 0.7

11. **Crafts** A jeweler creates triangular earrings by bending pieces of silver wire. Each earring is an isosceles triangle with the dimensions shown. How many earrings can be made from a piece of wire that is 50 cm long?



Perimeter = 7.5

50/7.5 = 6.$\overline{6}$

6