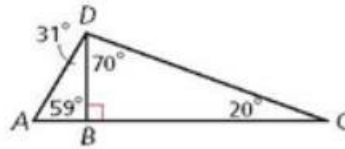


Classify each triangle by its angle measures.

3.  $\triangle DBC$     4.  $\triangle ABD$     5.  $\triangle ADC$

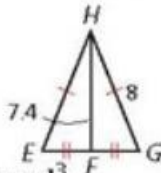
right    right    obtuse



Classify each triangle by its side lengths.

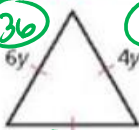
6.  $\triangle EGH$     7.  $\triangle EFH$     8.  $\triangle HFG$

isosceles    Scalene    Scalene



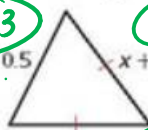
**Multi-Step** Find the side lengths of each triangle.

9.  $6y$      $4y + 12$



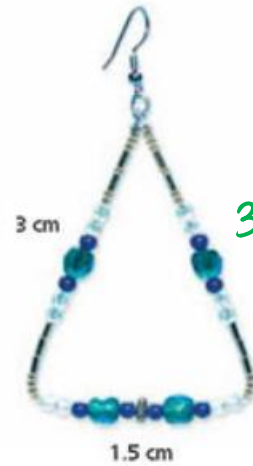
$36$

10.  $4x + 0.5$      $x + 2.4$



$3.1$

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?



9)  $6y = 4y + 12$   
 $2y = 12$   
 $y = 6$

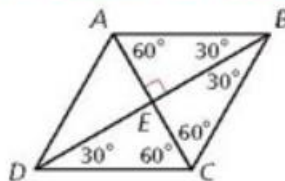
10)  $2x + 1.7 = x + 2.4$   
 $x = 0.7$

11) Perimeter =  $3 + 3 + 1.5$   
 $= 7.5$   
 $50 / 7.5 = 6.6$

**PRACTICE AND PROBLEM SOLVING**

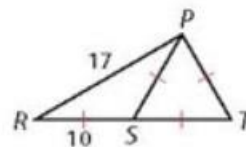
Classify each triangle by its angle measures.

12.  $\triangle BEA$  right  
 13.  $\triangle DBC$  obtuse  
 14.  $\triangle ABC$  equilateral



Classify each triangle by its side lengths.

15.  $\triangle PST$  equilateral  
~~16.  $\triangle RSP$~~   
~~17.  $\triangle RPT$~~



Draw an example of each type of triangle or explain why it is not possible.

23. isosceles right

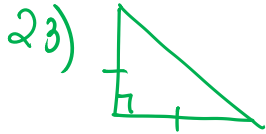
24. equiangular obtuse

~~25.~~ scalene right

~~26.~~ equilateral acute

~~27.~~ scalene equiangular

~~28.~~ isosceles acute



24) not possible b/c you can't have 3 obtuse angles in 1  $\triangle$  & have them all be the same measure.

What is the length of each side of the triangle?

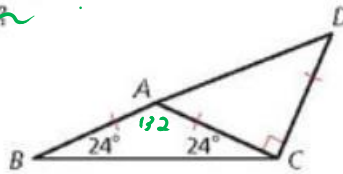
Classify each triangle by its angles and sides.

30.  $\triangle ABC$

obtuse  
isosceles

31.  $\triangle ACD$

right  
isosceles



43. Which of the following is NOT a correct classification of  $\triangle LMN$ ?

A Acute

C Isosceles

B Equiangular

D Right

