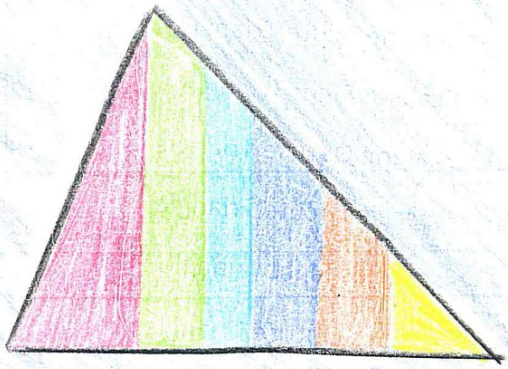
6.1

NAME: Ms. Dowgiallo

TRIANGLES

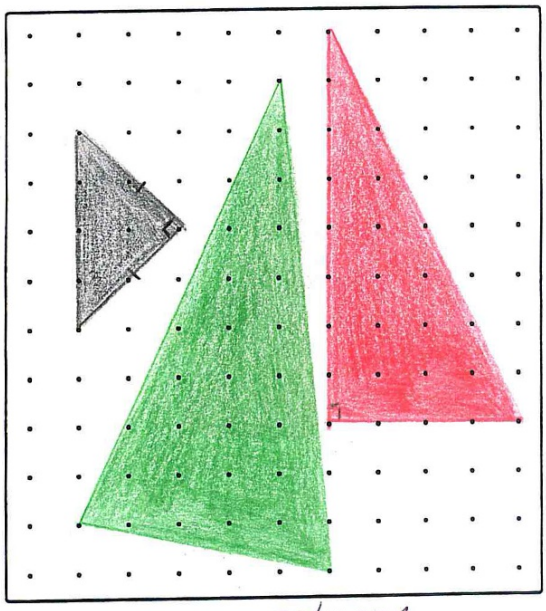


1-Triangle

2-Acute Triangle
3- Obtuse Triangle
4- Right Triangle
} classified by angles

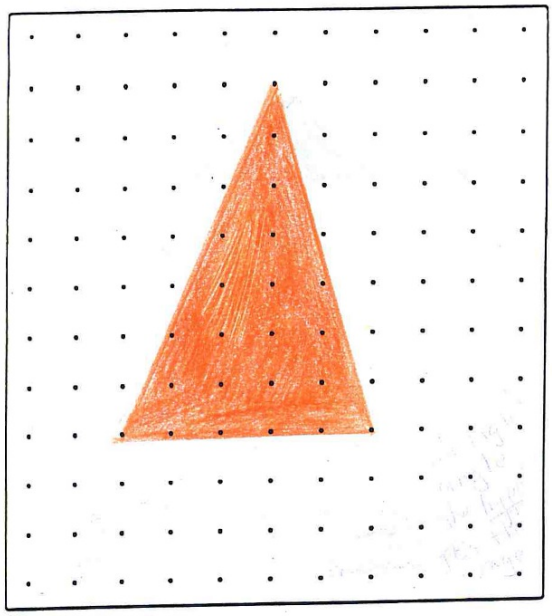
5- Isosceles Triangle
6-Scalene Triangle
7-Equilateral Triangle
} classified by sides

8-Scalene Acute Triangle
9-Scalene Right Triangle
10-Scalene Obtuse Triangle
11-Isosceles Acute Triangle
12-Isosceles Right Triangle
13 Isosceles Obtuse Triangle
} classified by BOTH angles AND sides



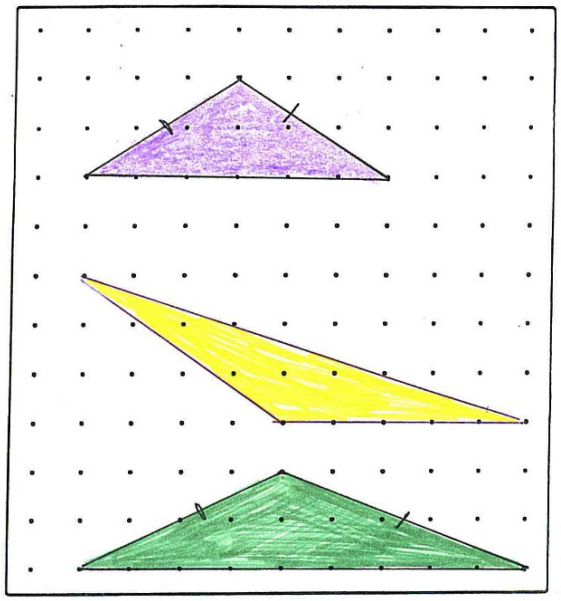
Triangle - polygon - closed figure made up of 3 line segments. It has 3 vertices.
The sum of all the angles equal 180° - ALWAYS

(1)

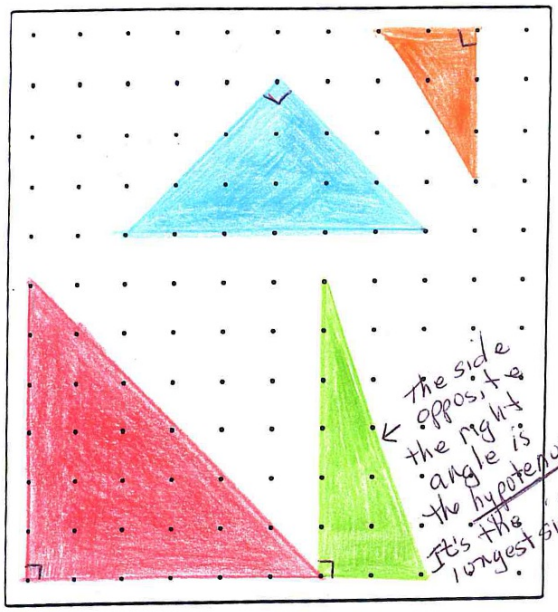


Acute Triangle
All angles of the triangle
less than 90°

(2)

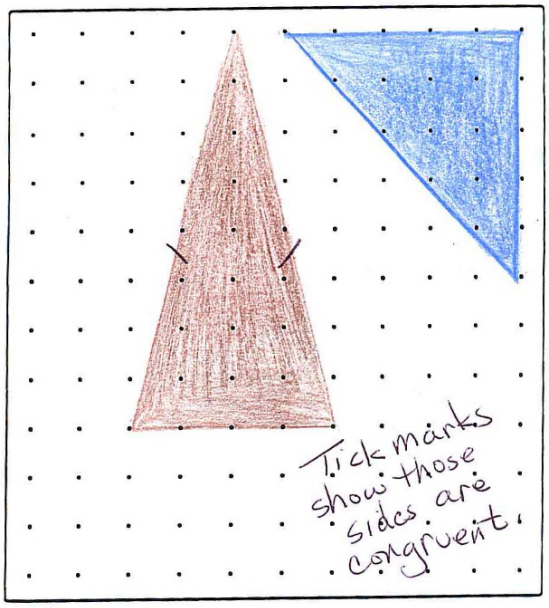


Obtuse Triangle
Has exactly one obtuse angle. (An obtuse angle is $>90°$ and $<180°$)

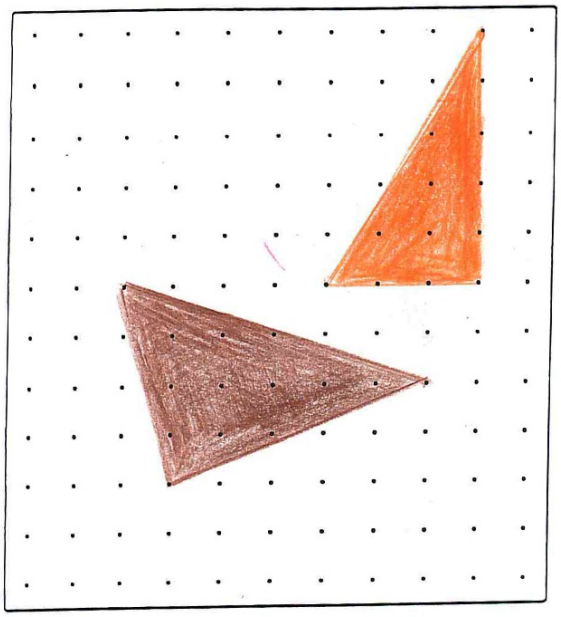


Right Triangle – Has exactly one 90° angle. The other 2 angles are acute. (Right angles are marked with a little square)

(4)

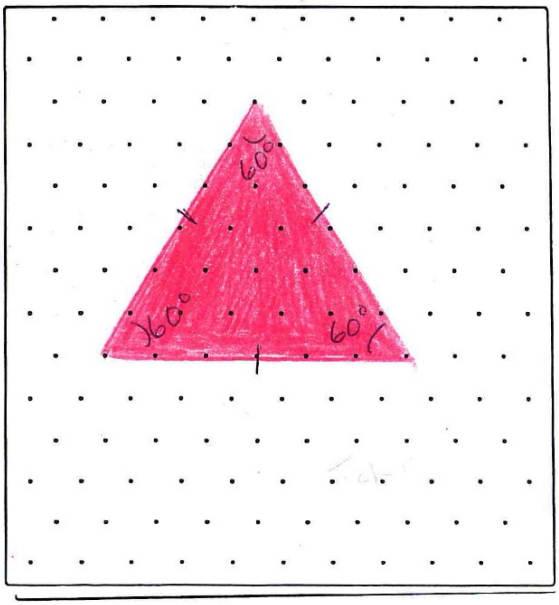


Isosceles Triangle
Has at least 2 equal (congruent) sides. (there can be 3, but not in this picture)



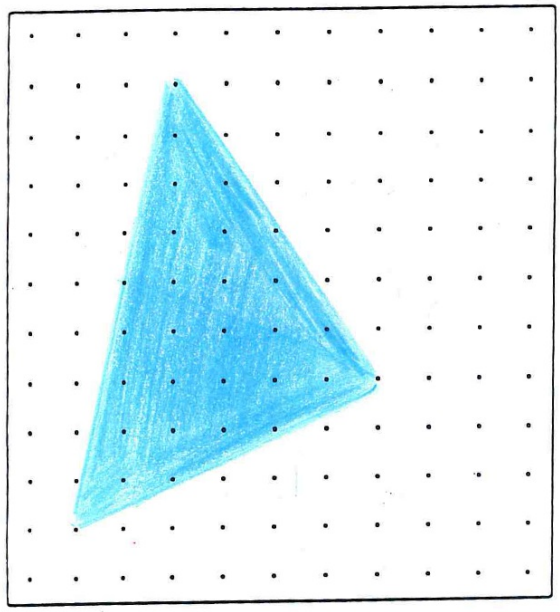
Scalene Triangle
Has no congruent sides

6



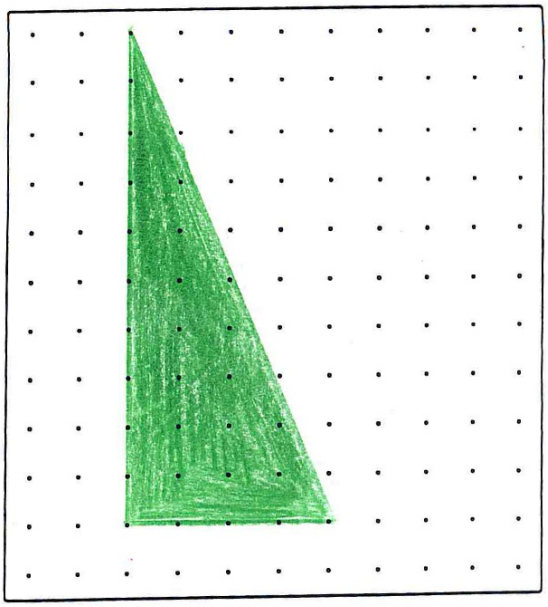
Equilateral Triangle
All sides are congruent.
(All angles are congruent.
They each = 60°)

$3\overline{)180}$ → 60

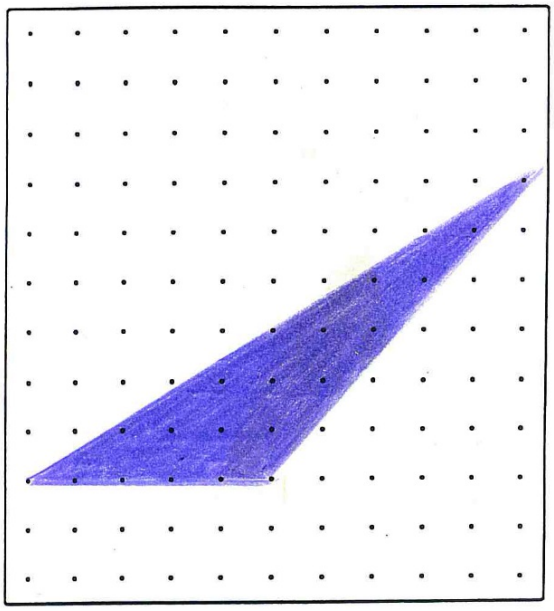


Scalene Acute Triangle
No congruent sides
AND all 3 angles are acute.

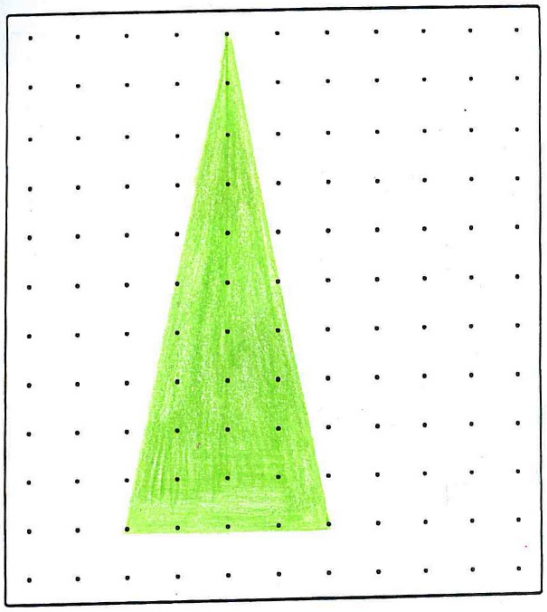
8)



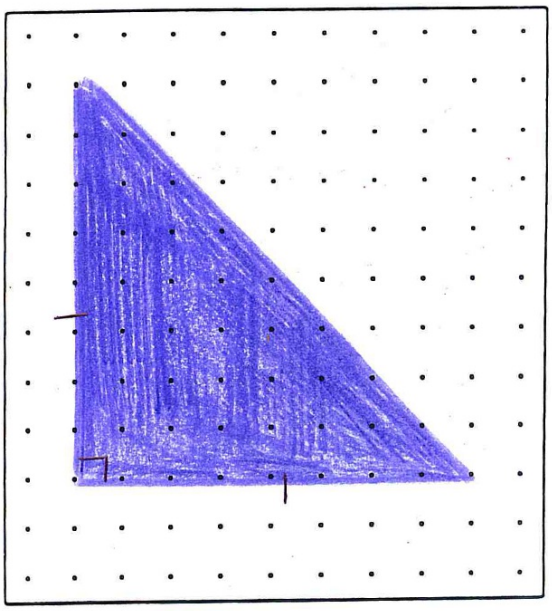
Scalene Right Triangle
No congruent sides
AND a right angle.



Scalene Obtuse Triangle
- No congruent sides
AND one obtuse angle.

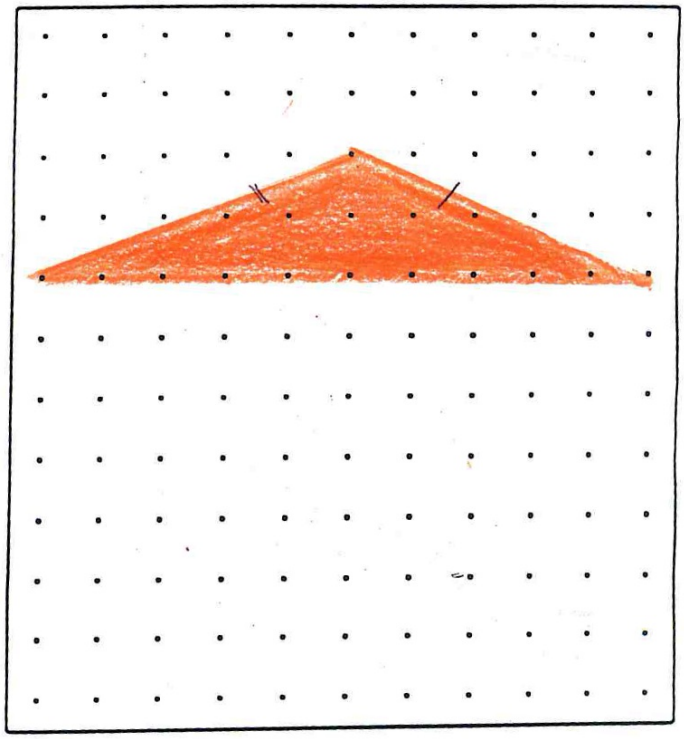


Isosceles Acute Triangle
Has at least 2 congruent sides AND all angles are acute



Isosceles Right Triangle
Has 2 congruent sides AND a right angle.

(12)



Isocelese Obtuse Triangle
Has 2 congruent
sides AND one
obtuse angle.