

5A.2 Learning Opportunity

Polygons



Name: _____

Determine whether the given measures can be the lengths of the sides of a triangle. Write *yes* or *no*.

1) 2, 3, 4

2) 5, 7, 9

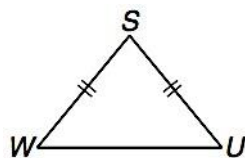
3) 9, 10, 20

4) 8, 8, 8

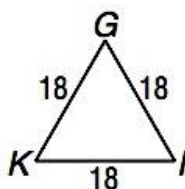
5) Two sides of a triangle measure 5 ft. and 8 ft. What is the possible range of lengths of the third side of the triangle?

Classify each triangle below as equilateral, isosceles, or scalene.

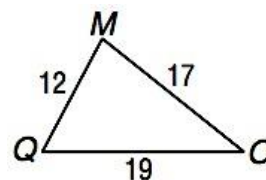
6)



7)

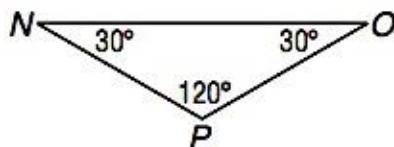


8)

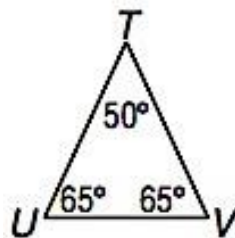


Classify each triangle below as acute, right, or obtuse.

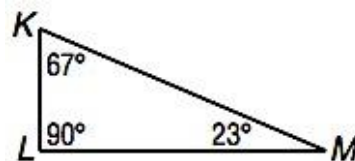
9)



10)

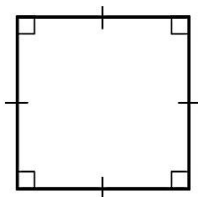


11)

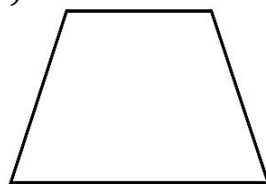


Classify, using the most specific name, each of the quadrilaterals shown below.

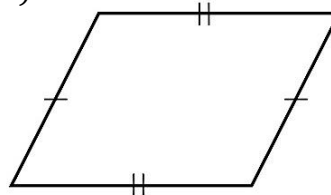
12)



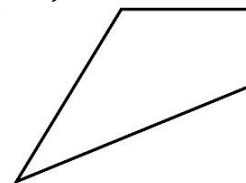
13)



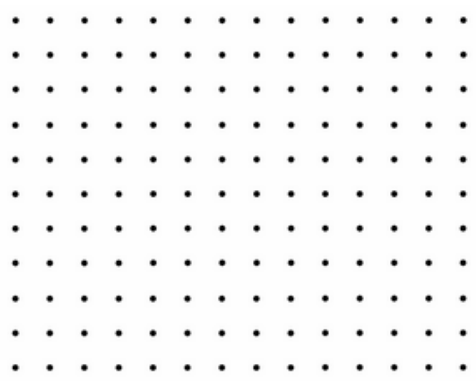
14)



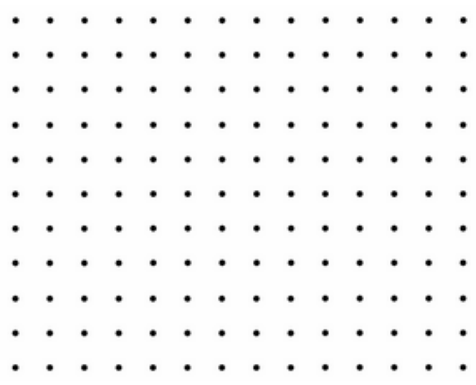
15)



16) Connect four dots, vertices, to draw a rectangle that is not a square. If it is impossible, explain why.



17) Connect four dots, vertices, to draw a quadrilateral with two pairs of congruent sides that is not a parallelogram. . If it is impossible, explain why.



18) Connect four dots, vertices, to draw a trapezoid that is also a rectangle. If it is impossible, explain why.

