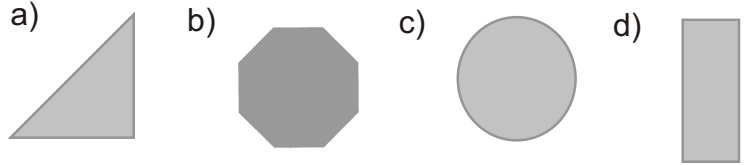


# Polygon Properties and Angle measurement

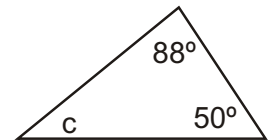
1) Which of the following is a regular polygon?



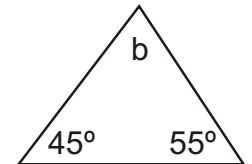
2) How many degrees are there total in a triangle? \_\_\_\_\_

3) How many degrees are there in each angle of a quadrilateral? \_\_\_\_\_

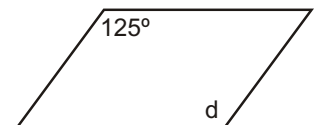
4) What is the angle measurement for  $\angle c$ ? \_\_\_\_\_



5) What is the degree measurement for  $\angle b$ ? \_\_\_\_\_



6) If polygons are completely tiled around a vertex, the angles should add up to:  
a)  $180^\circ$  b)  $120^\circ$  c)  $360^\circ$  d)  $55^\circ$



7) What is the measurement of  $\angle d$  of the parallelogram? \_\_\_\_\_

8) How many total degrees are there when you add the interior angles of a hexagon?  
\_\_\_\_\_



9) How many total degrees are there when you add the interior angles on octagon?  
\_\_\_\_\_



10) Estimate the measurement of this angle and circle the best answer.

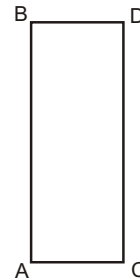
a)  $300^\circ$  b)  $90^\circ$  c)  $45^\circ$  d)  $120^\circ$



11) Which two sides of the rectangle are the longest? \_\_\_\_\_

12) List two of the rectangle's angles that are equal. \_\_\_\_\_

13) What is the sum of all of the rectangles inside angles? \_\_\_\_\_



14) An obtuse angle is an angle that is a) equal to  $90^\circ$  b) greater than  $90^\circ$  c) less than  $90^\circ$  d) equal to  $45^\circ$

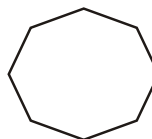
15) What is the sum of four right angles? \_\_\_\_\_

16) Which of the following is not a polygon:

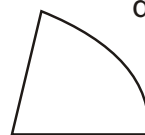
a)



b)



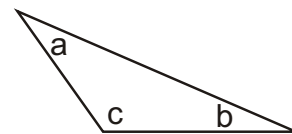
c)



d)

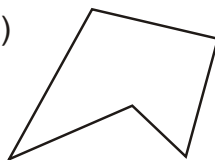


17) Which angle of the triangle is obtuse? a) angle a b) angle b c) angle c

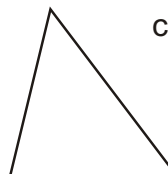


18) Which of the following polygons is symmetrical?

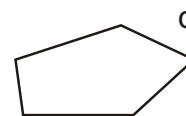
a)



b)



c)

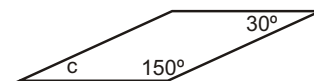


d)



19) An acute angle is less than: a)  $45^\circ$  b)  $90^\circ$  c)  $25^\circ$  d)  $0^\circ$

20) What is the measurement of angle c of the parallelogram? \_\_\_\_\_



\*Bonus: How many total degrees are there when you add all of the interior angles of a 13 sided polygon?