

I can correctly categorize geometric shapes.

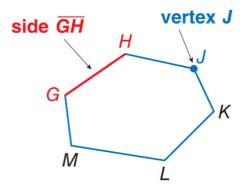
1.6 Two-Dimensional Figures

polygon: a closed figure formed by connecting line segments endpoint to endpoint

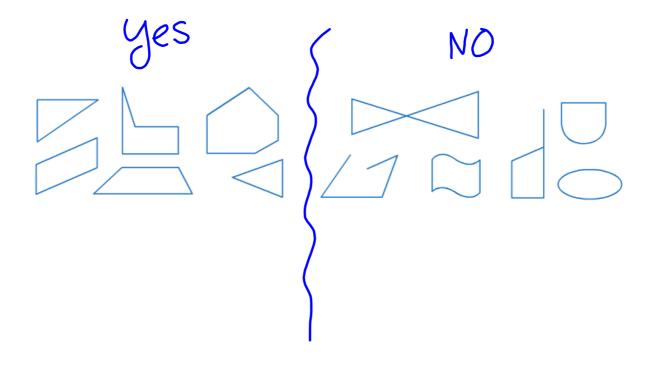
side: each line segment of the polygon

vertex: each endpoint where the sides meet in a polygon

Named by: naming vertices in order around the polygon

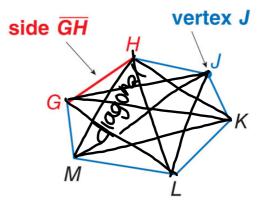


polygon GHJKLM

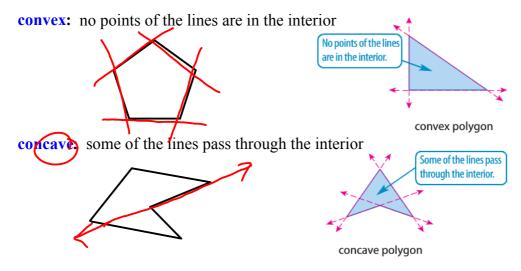


consecutive: next to each other consecutive angles 26 24 consecutive vertices 6, 4 consecutive sides 54 HJ

diagonal: a line segment that connec nonconsecutive vertices



polygon GHJKLM



congruent polygons: two polygons that have exactly the same

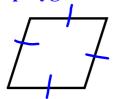
size and shape	6
A P	
A SE	\ \

ABCDE = FGHIT

# of sides	3	4	5	6	7
Name	Triangle	Quadrilateral	Pentagon	Hexagon	Heptagon

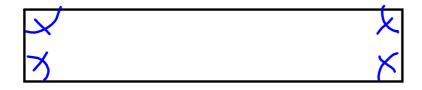
8	9	10	11	12	n
Octagon	Nonagon	Decagon	Undecagon	Dodecagon	n-gon

equilateral polygons: a polygon where all the sides are equal



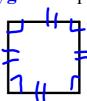
Markings!

equiangular polygons: a polygon where all the angles are equal



regular polygons: a polygon where all sides and all angles are equal



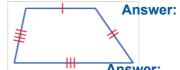








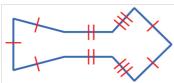
Name the polygon by its number of sides. Then classify it as convex or concave and regular or irregular.

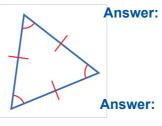


quadrilateral, convex, irregular



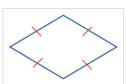
nonagon, concave, irregular





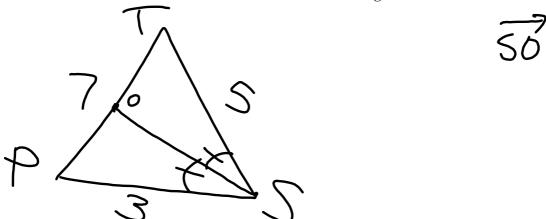
triangle, convex, regular

quadrilateral, convex, irregular



Draw & mark the following shapes.

 ΔPTS with $\overline{PS} = 3$, \overline{ST} =5 and \overline{PT} =7, angle bisector \overline{SO} .



Perimeter, Circumference, and Area

These are vocabulary words you need to know! p.58

Copy the table into your notebook!

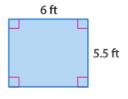
Complete Guided Practice 2A., 2B., and 2C.

$$P=5+5+5+5$$
 square?
 $P=2l+2w$ rect.

KeyConcept Perimeter, Circumference, and Area			
Triangle	Square	Rectangle	Circle
c h d	s s	ℓ	r d
P = b + c + d	P = s + s + s + s	$P = \ell + w + \ell + w$	$C=2\pi r$ or
	= 4 <i>s</i>	$=2\ell+2w$	$C = \pi d$
$A = \frac{1}{2}bh$	$A = s^2$	$A = \ell W$	$A = \pi r^2$
P = perimeter of polygor	A = area of	figure	C = circumference
b = base, h = height	$\ell=$ length,	w = width	r = radius, d = diameter

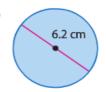
GuidedPractice

2A.



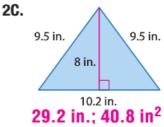
23 ft; 33 ft²

2B.



 \approx 19.5 cm; \approx 30.2 cm²

Erase below shape for answers.



	Homework
	Slightly Different
	from sheet!!!
1	1.6 p.61 #11-22, 29 You may replace some area/perimeter problems for 23, 24 if you would like a
	Read booklet directions! Ask questions! Rough Draft Due DATE!!