

we
do

LO: to calculate angles (polygons)

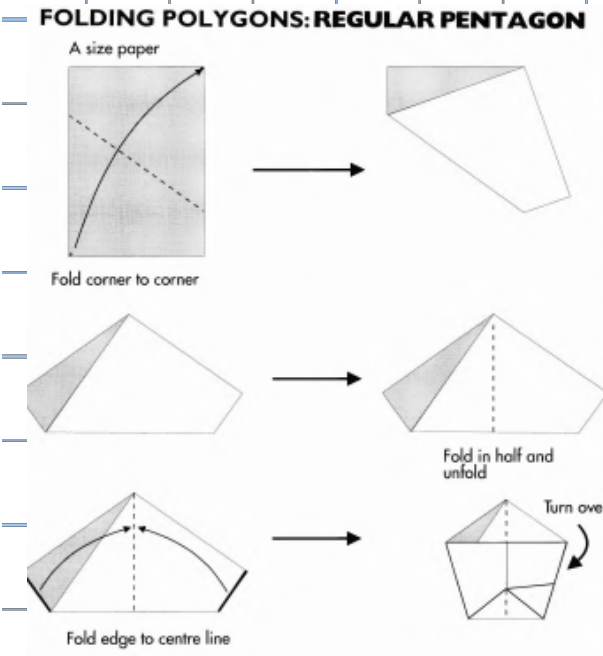
What is a polygon?

What does regular and
irregular mean?

I
do

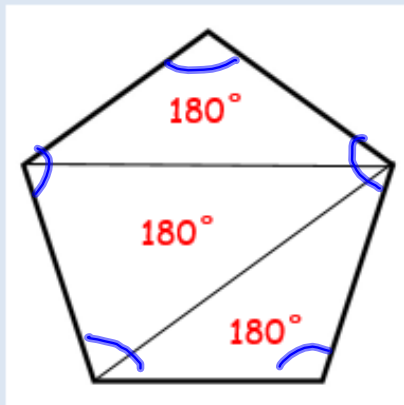
POWERPOINT

we
do



Paper Folding
Pentagon

Mark on
interior and
exterior
angles



Pentagon

5 sides

3 triangles

$$3 \times 180$$

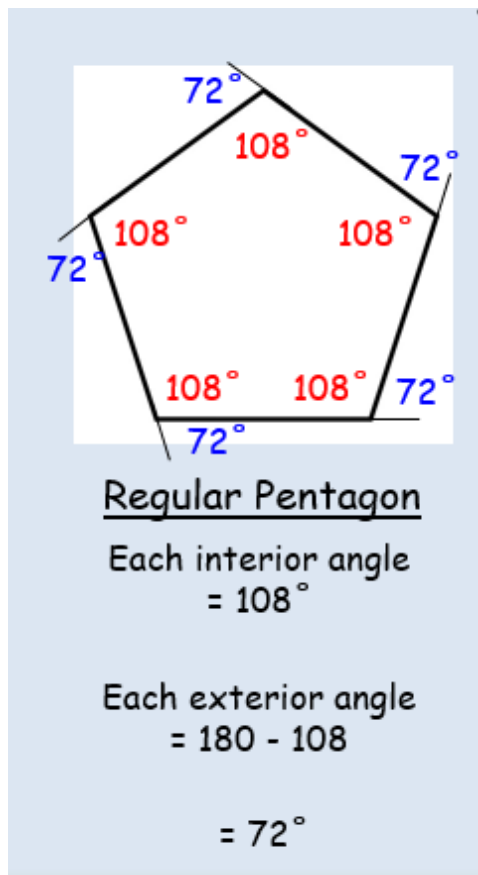
$$= 540^\circ$$

Sum of interior angles
 $= 540^\circ$

5 angles

$$540 \div 5$$

$$= 108^\circ$$



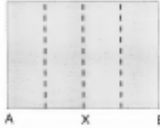
we
do

FOLDING POLYGONS: REGULAR HEXAGON

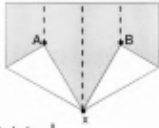
A size paper



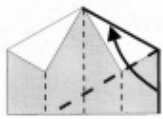
Fold in half and then in quarters and unfold. Rotate shape.



Roll corners A and B along quarter fold lines until lines AX and BX are formed



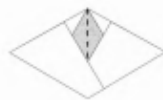
Rotate shape



Fold edge to edge



Fold edge to edge



Fold corners to centre using quarter fold lines



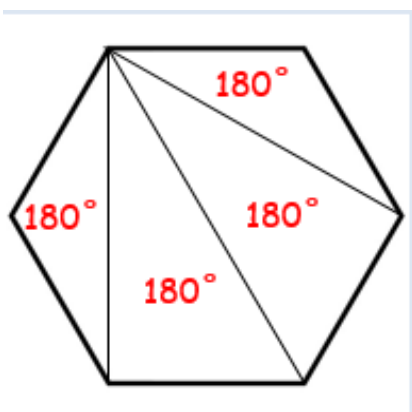
Turn over



Regular Hexagon

Paper Folding
Hexagon

Mark on
interior and
exterior
angles



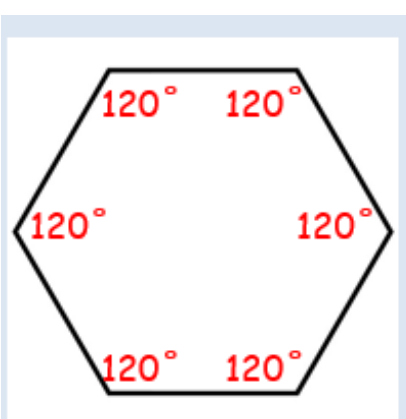
Hexagon

6 sides

4 triangles

$$4 \times 180$$

$$= 720^\circ$$



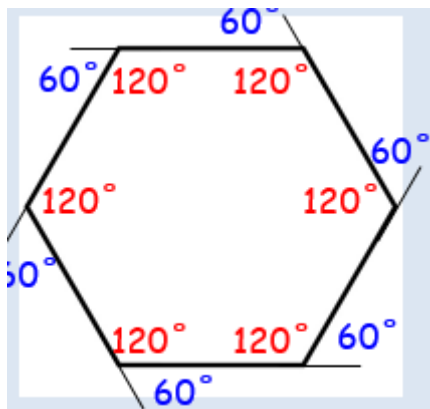
Regular Hexagon

Sum of interior angles
 $= 720^\circ$

6 angles

$$720 \div 6$$

$$= 120^\circ$$

Regular Hexagon

Each interior angle
 $= 120^\circ$

Each exterior angle
 $= 180 - 120$

$= 60^\circ$

I do

LO: to calculate angles (polygons)

Complete the table:

Name of Polygon	No. of sides	No. of triangles	Sum of interior angles	Interior Angle	Exterior angle	Sum of exterior angles
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					

What is the same? What's different?

