## Name

Date

## 1.5 – Classifying Polygons

Classify each polygon. Assume the sides of the chips and crackers are straight.



Try your best to draw an example of each polygon. If it's so difficult to draw them, you are allowed to cut and paste a picture from the internet in the space provided.

9) Quadrilateral 10) Decagon

11) Dodecagon

12) Octagon

Name the following polygons using the vertices.



For the following, sketch and carefully label the figure described.

16)  $\overline{PE}$  perpendicular to  $\overline{AR}$ 

17) Vertical angles  $\angle ABC$  and  $\angle DBE$ 

18) Pentagon *PENTA* with *PE=EN*.

19) Supplementary angles  $\angle RAT$  and  $\angle TAN$ 

20) Hexagon NGAXEH with  $\angle HEX \cong \angle EXA$ 

21)  $\overrightarrow{AB}$ ,  $\overrightarrow{CD}$ , and  $\overrightarrow{EF}$  with  $\overrightarrow{AB} \parallel \overrightarrow{CD}$  and  $\overrightarrow{CD} \perp \overrightarrow{EF}$ .

22) Equiangular quadrilateral *QUAD* with  $QU \neq QD$ .

From the information given, determine the correct congruence statement.



Find the missing measures in each pair of congruent polygons.

 $\Delta HAT \cong \Delta CEK$ 25) 26)  $THINK \cong POWER$ *PR* = \_\_\_\_\_  $m \angle H = \_$   $CE = \_$ *RE* = \_\_\_\_\_ *EK* = \_\_\_\_\_  $m \angle A =$ \_\_\_\_\_  $EW = \_$   $WO = \_$ *CK* = \_\_\_\_\_  $m \angle T =$ \_\_\_\_\_ *PO* = \_\_\_\_\_ 0 W 60° K < 40° F P 5 80° 34 58 E R N< 28 20 Н 44 4 Н