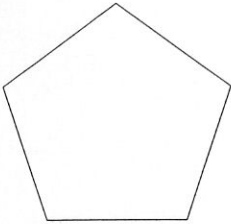


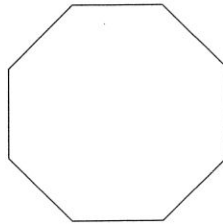
Polygons and Angles

Find the measure of one interior angle in each polygon. Round your answer to the nearest tenth if necessary.

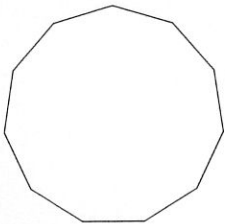
1)



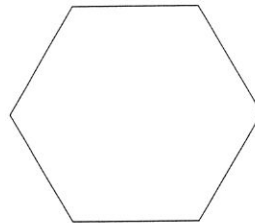
2)



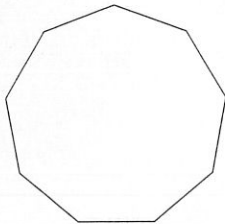
3)



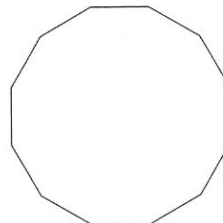
4)



5)



6)



7) regular 24-gon

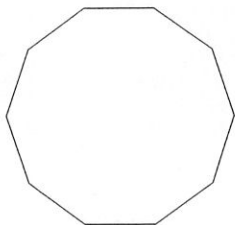
8) regular quadrilateral

9) regular 23-gon

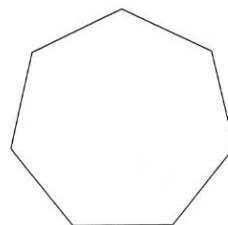
10) regular 16-gon

Find the measure of one exterior angle in each polygon. Round your answer to the nearest tenth if necessary.

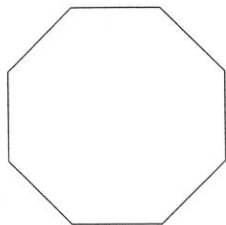
11)



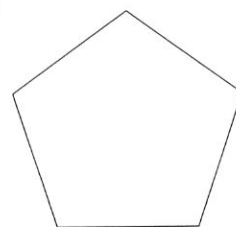
12)



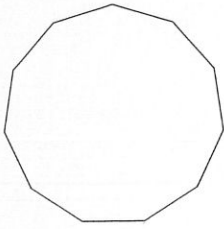
13)



14)



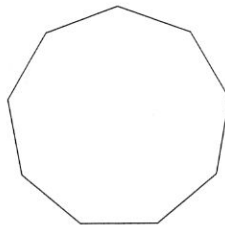
15)



17) regular 13-gon

19) regular 20-gon

16)

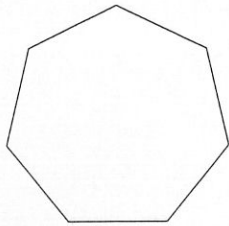


18) regular 16-gon

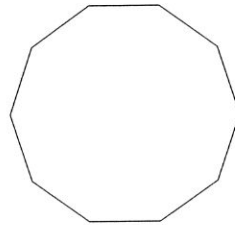
20) regular 23-gon

Find the interior angle sum for each polygon. Round your answer to the nearest tenth if necessary.

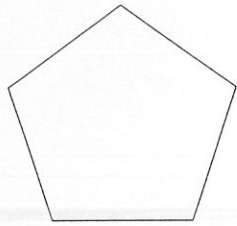
21)



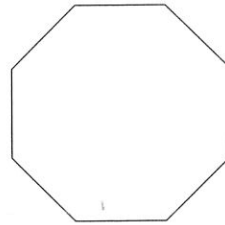
22)



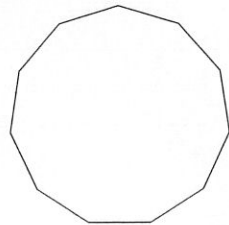
23)



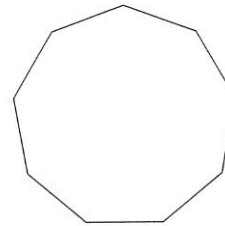
24)



25)



26)



27) regular quadrilateral

28) regular 18-gon

29) regular dodecagon

30) regular 15-gon

Critical thinking questions:

31) What is the exterior angle sum of a 500-gon?

32) Is there a regular polygon with an interior angle sum of 9000° ? If so, what is it?