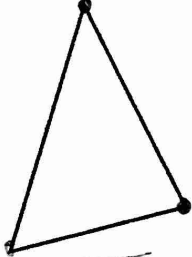


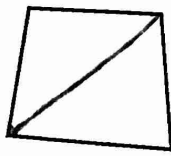
Lesson 4 Skills Practice

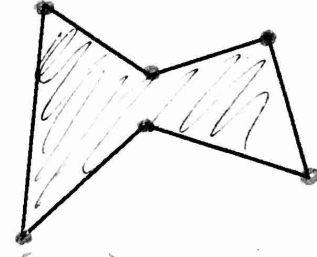
Polygons and Angles

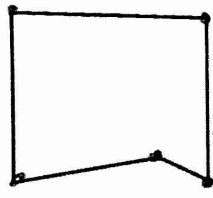
Find the sum of the interior angle measures of each polygon.

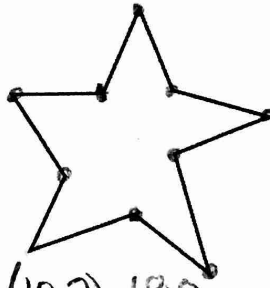
$$(n-2) \cdot 180$$

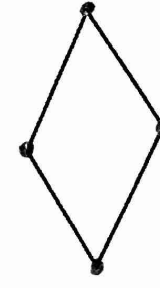
1. 
 180°

2. 
 $(4-2) \cdot 180$
 $2 \cdot 180$
 360°

3. 
 $(6-2) \cdot 180$
 $4 \cdot 180$
 720°

4. 
 $(5-2) \cdot 180$
 $3 \cdot 180$
 540°

5. 
 $(10-2) \cdot 180$
 $8 \cdot 180$
 $1,440^\circ$

6. 
 $(4-2) \cdot 180$
 $2 \cdot 180$
 360°

Find the sum of the interior angle measures of each polygon.

7. 13-gon $(13-2) \cdot 180$
 $11 \cdot 180$
 1980°

8. 18-gon $(18-2) \cdot 180$
 $16 \cdot 180$
 2880°

9. 32-gon $(32-2) \cdot 180$
 $30 \cdot 180$
 $5,400^\circ$

10. 35-gon $(35-2) \cdot 180$
 $33 \cdot 180$
 $5,940^\circ$

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

11. heptagon (7-sided) $(7-2) \cdot 180$
 $\frac{5 \cdot 180}{7}$
 128.6°

12. 26-gon $(26-2) \cdot 180$
 $\frac{26 \cdot 180}{26}$
 166.2°

13. decagon (10-sided) $(10-2) \cdot 180$
 $\frac{10 \cdot 180}{10}$
 144°

14. 23-gon $(23-2) \cdot 180$
 $\frac{23 \cdot 180}{23}$
 164.3°