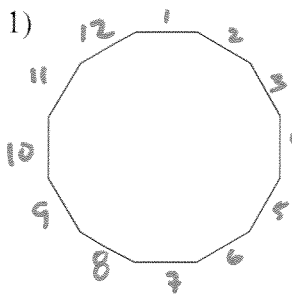
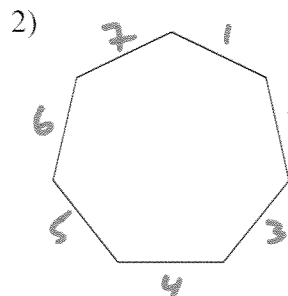


Find the interior angle sum for each polygon. Round your answer to the nearest tenth if necessary.

1)  $180(n-2)$
 $180(12-2)$
 $180(10)$
 $= 1800^\circ$

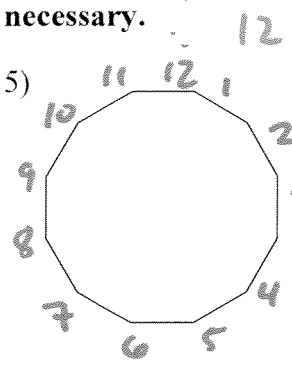
2)  $180(n-2)$
 $180(7-2)$
 $180(5)$
 $= 900^\circ$

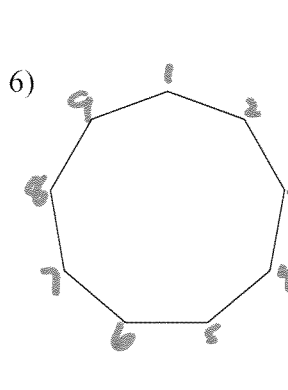
USE $180(n-2)$

3) regular 19-gon $180(n-2)$
 $180(19-2)$
 $= 3060^\circ$

4) regular 14-gon $180(14-2)$
 $= 2160^\circ$

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

5)  12 angles
 $12n = 360$
 $n = \frac{360}{12}$
 $n = 30^\circ$

6)  9 angles
 $9n = 360$
 $n = 40^\circ$

Count # of sides
 $\frac{360}{9}$

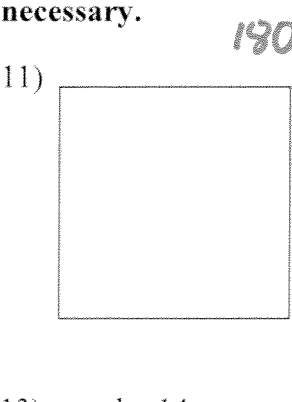
7) regular octagon $8n = 360$
 $n = 45^\circ$

8) regular 15-gon $15n = 360$
 $n = 24^\circ$

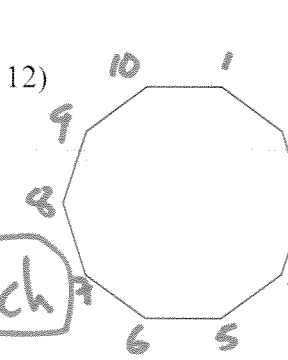
9) regular 11-gon $11n = 360$
 $n = 32.7^\circ$

10) regular pentagon $5n = 360$
 $n = 72^\circ$

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

11)  $180(n-2)$
 $180(4-2)$
 $180 \cdot 2$
 $= 360^\circ$
 $\frac{360^\circ}{4 \text{ angles}}$
 $= 90^\circ \text{ each}$

TOTAL SUM

12)  $180(10-2)$
 $180(8)$
 $= 1440^\circ \text{ TOTAL SUM}$
 $\frac{1440}{10} = 144^\circ \text{ each}$

13) regular 14-gon
 Side # 4 $\rightarrow \frac{2160}{14} = 154.3^\circ \text{ each}$

14) regular 24-gon
 TOTAL SUM = $180(24-2) = 3960^\circ$
 $\frac{3960}{24} = 165^\circ \text{ each}$

15) regular 20-gon
 $180(20-2)$
 $= 3240^\circ \text{ total sum}$
 $\frac{3240}{20} = 162^\circ \text{ each}$

16) regular 17-gon
 $= 180(17-2)$
 $= 2700^\circ \text{ total}$
 $\frac{2700}{17} = 158.8^\circ \text{ each}$