

123-125 #5-8, 10-11, 13, 16, 19, 21, 24, 25, 28

- 5. 1260°
- 6. 900°
- 7. 360°
- 8. 1080°
- 10. The right side of the formula is $(n - 2) \cdot 180^\circ$, not $n \cdot 180^\circ$.
$$S = (n - 2) \cdot 180^\circ$$
$$= (13 - 2) \cdot 180^\circ$$
$$= 11 \cdot 180^\circ$$
$$= 1980^\circ$$
- 11. no; The interior angle measures given add up to 535° , but the sum of the interior angle measures of a pentagon is 540° .
- 13. $90^\circ, 135^\circ, 135^\circ, 135^\circ, 135^\circ, 90^\circ$
- 16. 60°
- 19. The sum of the interior angle measures should have been divided by the number of angles, 20. $3240^\circ \div 20 = 162^\circ$; The measure of each interior angle is 162° .
- 21. 24 sides
- 24. $54^\circ, 74^\circ, 78^\circ, 55^\circ, 99^\circ$
- 25. 60° ; The sum of the interior angle measures of a hexagon is 720° . Because it is regular, each angle has the same measure. So, each interior angle is $720^\circ \div 6 = 120^\circ$ and each exterior angle is 60° .
- 28. $125^\circ, 125^\circ, 55^\circ, 55^\circ$