S T Q Q S S D

__/__/__

NOME: João Victor
TURMA: CT11348
Prontuario: 1990527

Tarefa Básica.

1)

$Ae = \frac{360^\circ}{12} = 30^\circ$

$Ae = 30^\circ$

$Ai + Ae = 180$
$Ai = 180 - 30$
$Ai = 150^\circ$

$Ai = 150^\circ$

2)

$Si = 180 (N-2)$
$Si = 180 (20-2)$
$Si = 180 . 18$
$Si = 3240^\circ$

$3240^\circ$

3)

Ai → ANGULOS INTERNOS
Si → SOMA DOS INTERNOS → $180 (N-2)$
N → NUMERO DE LADOS

$Ai = \frac{180 (N-2)}{N}$ //

$\frac{180^\circ (N-2)}{N}$

4)

$Si = 180 (N-2)$
$Se = 360^\circ$

$Si = 5 . Se$

$180 (N-2) = 5.360$
$180 (N-2) = 1800$
$180N - 360 = 1800$
$180N = 1800 + 360$
$N = \frac{2160}{180}$
$N = 12$

Dodecágono

S T Q Q S S D

__/__/__

5)

$N = 2d$

$d = \frac{N(N-3)}{2}$

$d = \frac{2d(2d-3)}{2}$

$2d = 4d^2 - 6d$

$4d^2 - 8d = 0$

$\Delta = b^2 - 4ac$

$\Delta = (-8)^2 - 4.4.0$

$\Delta = 64$

$x' = \frac{8+8}{8} = 2$

$d = 2$

$x'' = \frac{8-8}{8} = 0$

(4)

$N = 2d \quad N = 2.2 = 4$

6)

$Ai = \frac{180(N-2)}{N}$

$Ae = \frac{360}{N}$

$Ai = 3Ae$

$\frac{180(N-2)}{N} = 3.\frac{360}{N}$

$\frac{180(N-2)}{N} = \frac{1080}{N}$

$180N - 360 = 1080$

$N = \frac{1440}{180} \quad N = 8$

(C)