

2.5	<p>The new series/<i>Die nuwe reeks</i> is $16 + 44 + 72 + \dots + 1752$</p> $16 + 28(n - 1) = 1752$ $1736 = 28(n - 1)$ $62 = n - 1$ $n = 63$ <p>OR/OF</p> <p>$2 + 9 + \underline{16} + 23 + 30 + 37 + \underline{44} + 51 + \dots + \underline{1752}$</p> <p>$T_3$ is divisible by /is deelbaar deur 4</p> <p>Then $T_7, T_{11}, T_{15}, \dots, T_{251}$ are divisible by 4, thus each 4th term is divisible by 4.</p> <p>Daarna is $T_7, T_{11}, T_{15}, \dots, T_{251}$ deelbaar deur 4, d.w.s. elke 4^{de} term is deelbaar deur 4.</p> <p>\therefore number of terms divisible by 4 will be $= \frac{251 - 3}{4} + 1 = 63$</p> <p>$\therefore$ aantal terme deelbaar deur 4 sal wees $= \frac{251 - 3}{4} + 1 = 63$</p> <p>OR/OF</p> <p>Position of terms divisible by 4:</p> <p>$3 ; 7 ; 11 ; \dots ; 247 ; 251$</p> $T_n = 4n - 1 = 251$ $4n = 252$ $n = 63$	<p>✓✓ generating new series divisible by 4/ <i>vorming van nuwe reeks deelbaar deur 4</i></p> <p>✓ $T_n = 1752$</p> <p>✓ 63 (4)</p> <p>✓ T_3 is divisible by 4/ <i>is deelbaar deur 4</i></p> <p>✓ identifying terms divisible by 4/ <i>identifiseer terme deelbaar deur 4</i></p> <p>✓ reasoning/redenering</p> <p>✓ 63 (4)</p>
	<p>Position of terms divisible by 4:</p> <p>$3 ; 7 ; 11 ; \dots ; 247 ; 251$</p> $T_n = 4n - 1 = 251$ $4n = 252$ $n = 63$	<p>✓✓ generating sequence involving position of terms/<i>vorming van reeks i.t.v. posisie van terme</i></p> <p>✓ $T_n = 251$</p> <p>✓ 63 (4)</p>

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