$Let \qquad x = y + d\,;\; z = y - d$

$x^2 - y^2 - z^2 = (4d - y) \times y$

$so \qquad n = d_1 \times d_2$

$with \qquad d_2 = y\,;\; 4d - y = d_1$

$\Leftrightarrow d_2 = y\,;\; d = \dfrac{(d_1 + d_2)}{4}$

$The\ constraint \qquad z > 0 \;\Leftrightarrow\; d < y \;\Leftrightarrow\; d_2 < 3d_1$

$loop\ on\ d_1\ and\ d_2$

$increment\ for\ d_2\ by\ 4\ due\ to\ d_1 + d_2 \equiv 0\ Mod[4]$

$$n = d_1 \times d_2$$

$$d_2 = y\,;\; d = \frac{(d_1 + d_2)}{4}$$

$$d_2 < 3d_1$$