The domain is all values that z is allowed to be. Since I can't divide by zero (division by zero isn't allowed,

I need to find all values of z that would cause division by zero.

The domain will then be all other z-values. When is this denominator equal to zero?

 $z^2 - 30 z + 125 = 0$

z=5 or 25 then the domain of n is $\{z \mid z \neq 5 \text{ or } 25\}$