```
div_inverts_nat_mul2  THM

⊢  ∀x:ℕ+, y,z:ℕ. x = y·z ⇒ (x ÷ z) = y
| by SimilarTo
|    Thm*  ∀x,y:ℕ, z:ℕ+. x = y·z ⇒ (x ÷ z) = y
|    {div_inverts_nat_mul} ...ℕ
|
1. x : ℕ+
2. y : ℕ
3. ∀z:ℕ+. x = y·z ⇒ (x ÷ z) = y
4. z : ℕ
5. x = y·z
⊢  (x ÷ z) = y
| by Guarding (<prop> & <prop>)
|    FwdThru:
|    Thm*  ∀a,b:ℕ. 0<a·b ⟺ 0<a & 0<b    {pos_mul_arg_boundsNat}
|    on [ 0<y·z ] ...ℕ
|
6. 0<y
7. 0<z
⊢  (x ÷ z) = y  by BackThru: Hyp:3 ...ℕ
END
```