```
mul_cancel_in_lt  THM

⊢  ∀a,b:ℤ, n:ℕ+ . n·a<n·b ⇒ a<b  by Auto
|
1. a : ℤ
2. b : ℤ
3. n : ℕ+
4. n·a<n·b
⊢  a<b  by Decide (a<b)
|
5. ¬a<b
⊢  a<b
  by Inst Thm* ∀a,b:ℤ, n:ℕ. a≤b ⇒ n·a≤n·b    {mul_preserves_le}
     [b;a;n]
END
```