Inference at $*$ 1
 of proof for Lemma mul_cancel_in_lt:

1. $a : \mathbb{Z}$
2. $b : \mathbb{Z}$
3. $n : \mathbb{N}^+$
4. $(n * a) < (n * b)$

$\vdash a < b$

 by ((Decide $a < b$)
 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
 ),(first_nat 4:n)) (first_tok :t) inil_term)))·

 1:

 5. $\neg(a < b)$

 $\vdash a < b$

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