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

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

$\vdash a < b$

 by ((InstLemma ‘mul_preserves_le‘ [b;a;n])
 CollapseTHEN ((Auto_aux (first_nat 1:n
) ((first_nat 2:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

 .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_75047_{mul_cancel_in_lt}1_1.html