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

1. $a : \mathbb{Z}$
2. $b : \mathbb{Z}$
3. $n : \mathbb{Z}^{-\circ}$

$\vdash((n * a) = (n * b)) \Rightarrow (a = b)$
 by ((Assert $\forall m{:}\mathbb{N}^+.\ ((m * a) = (m * b)) \Rightarrow (a = b)$)
 CollapseTHEN ((Auto_aux (first_nat
 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

1:

4. $m : \mathbb{N}^+$
5. $(m * a) = (m * b)$

$\vdash a = b$

2:

4. $\forall m{:}\mathbb{N}^+.\ ((m * a) = (m * b)) \Rightarrow (a = b)$
5. $(n * a) = (n * b)$

$\vdash a = b$

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