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

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

$\vdash a \leq b$
by D 5

1:

5. $(n * a) < (n * b)$

$\vdash a \leq b$

2:

5. $(n * a) = (n * b)$

$\vdash a \leq b$

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