$$a^1 \cong a^1 \times 1 \cong a \times 1 \cong a$$

The diagram with vertices a^1 (top), a^1, $a^1 \times 1$, a, $a \times 1$, 1, and a (bottom), with arrows labeled:

- 1_a^1
- $\langle id_a^1, 1^{a^1} \rangle$
- p_a^1
- p_1
- p_a^1
- $eval$
- $\langle eval, p_1 \rangle$
- $\widehat{p_a} \times id_1$
- p_1
- p_a
- p_1
- id_a
- p_a
- $\langle id_a, 1^a \rangle$
- 1^a

$$a \cong a^1 \blacksquare$$

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