Math Statement in Math Statement in Formal Language (optional) **Natural Language** "Find the product of theorem 0.\overline{6} and 6. "2/3 \* 6 = 4"The answer is 4." **Formalization** Reference fixes a b ::real assumes "a = 2/3" fixes x y ::real
assumes "x = 2/3" and "b = 6" shows "a \* b = 4" and "y = 6" shows x \* y = 4fixes x y ::real
assumes "x = 0.66" Pair-wise Checking and "y = 6" of Symbolic "x \* y = 4" shows Equivalence theorem theorem shows "4 = 4" fixes x y ::real assumes "x = 0.6666"and "y = 6" "x \* y = 4" shows **Informalization** Let a be two-thirds and b be six. Prove that "Let x be two-thirds and when you multiply a by y be six. Prove that b, it equals four." when you multiply x by y, it equals four. "Imagine  ${\sf x}$  is 0.66 and  ${\sf y}$ is 6. We're gonna show Palmate Checking of that x times y comes out Semantic Consistency If x is 0.6666 and y is 6, "Show that 4 is the same then x times y is 4. as 4." **Selection after Scoring** fixes x y ::real
assumes "x = 2/3" and "y = 6" shows "x \* y = 4"