

## Dyscalculating

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## **Key Features:**

Manual Equation Entry: The user can enter any one-

variable equation of their choice.

- Color-Coded Problem Components: The app breaks the problem down and color codes the constants and coefficients.
- Interactive Step Checklist with equation display as the user works through the problem. **Motivation**  Individuals with dyscalculia struggle to grasp and 25n + 2n + 3 = 57Add all the orange numbers on the right side solve certain math concepts. together. Then subtract the orange numbers on the left side from that sum. • We tried to solve this by creating an app that **breaks** 57 - 3 = one-variable equations down into sizeable chunks. Correct! **Target Audience** Check Answer Step two: • The audience of our app is individuals with 25n + 2n + 3 = 57Dyscalculia in middle or early high school who are the blue numbers on the left side together Then subtract the blue numbers on the right side from that sum. learning **Algebra 1** material. The users should be able 25 + 2 = ?to easily identify the order in which a solution to a 27 Correct! problem starts and ends, given their inability to Check Answer Step three: remember the sequence of steps to solve a 25n + 2n + 3 = 57Divide the blue number by the orange number particular problem. The result is the value of x. 54 / 27 = ? **App Architecture and Design** Check Answe User inputs an equation

intwork 🔻 100% 🖛	$\pi = 3,14159$
Enter Your Equation:	$f + b^{-}$ $A = \frac{1}{2}bh$ $ax + b = c$
- Type equation here: 25n + 2n + 3 = 57	$f'' \\ y = f(x) = -x \\ tan \theta = \frac{s \cdot n \theta}{cos \theta} $
Enter	$p \cdot q = c$
	A=Lw w
	Step one:

The user has solved the

