DealIn MVP loyalty token supply formula

For the MVP, there are three parameters that are provided in the deal creation form:

- 1. **Budget**: The total amount in fiat that the merchant is willing to reserve for the deal. This will be noted as *B*.
- 2. **Milestones**: The number of milestones (visits) a participating customer will complete to earn the reward. This will be noted as *M*
- 3. **Reward**: The corresponding amount in fiat that a participating customer will receive or entitled to after completing the milestones for the deal. This will be noted as *R*.
- 4. **Point value**: The value in fiat of a unit of loyalty point of a deal. This will be noted as *P*.
- 5. **Total supply**: The total supply of loyalty tokens for the deal. This will be noted as *T*.

We will assume for the MVP that the loyalty token unit for the deal is the equivalent of a milestone as defined above.

The deal loyalty token total supply is given by:

T = B * M / R

And the deal loyalty token value is given by:

P = R / M

Example 1

if B =\$1000, M=10, and R=\$5,

Then T=2000 tokens, and P=\$0.5.

Example 2

if B =\$100, M=1, and R=\$0.1,

Then T=1000 tokens, and P=\$0.1

Example 3

if B =\$1,000,000, M=10, and R=\$25,

Then T=400,000 tokens, and P=\$2.5