How to See Through Calculated Measures

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In love and hate relationship with testing

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Community Days
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“Borrow” solutions
Disassemble & examine
Demo how to break up MDX
Good artists copy, great artists steal.

PABLO PICASSO
“Borrow” solutions from internet

docs.eazybi.com, community.eazybi.com
I can’t save my measure! It keep telling me something about set.

FRUSTRATED CUSTOMER
If I run numbers in excel, it gives me a different average.
What to do when calculated member doesn't work as expected?
Examine MDX on your data

Disassemble
Break up formula gradually and test each part separately

Learn basics
Know function arguments and data types.

Understand measure
Understand what each measure means and how it is related to dimensions
Data types for function arguments

- Number
- String
- Date
- Set
- Member

17h 38m  91.6%

“Guns N' Roses”
May 25 2018
{%,&,@,*,$,!}
[Time].[Year].[2018]
Know function syntax

- What goes **IN**, how many arguments
- What comes **OUT**
- Where function starts and where it ends. Brackets (), curly brackets {}, dot .

```plaintext
Sum(
  { PreviousPeriods([Time].CurrentHierarchyMember),
    [Time].CurrentHierarchyMember },
  [Measures].[Issues resolved]
)
```
Measure meaning and relation to dimensions

• What each measure means: count of dogs or cats, count of beginnings, transitions or endings, time in days or hours, etc.

• How measure is related to Time and other dimensions
Test each part separately

- Select items for testing
- Break up each formula by arguments
- Use `SetToStr()` to test a set
- Use `AllProperties` to get precise property name
DEMO

How to Break Up MXD
Example from live demo

Formula from eazyBI Community post: https://community.eazybi.com/t/rolling-avg-velocity-for-last-5-sprints/1075/2

Ireese,

Please, find here a formula calculating the rolling average velocity for the last 5 closed sprint in the board. The calculation is designed to work with the Sprint dimension, Board level:

```
Avg(
    Head(Order(
        Filter(
            [Sprint].CurrentHierarchyMember.Children,
            [Measures].[Sprint closed]="Yes" AND
            NOT IsEmpty([Sprint].CurrentMember.get('Complete date'))
        ),
        [Measures].[Sprint start date],
        DESC
    ),5),
    [Measures].[Sprint Story Points completed]
)
```

I attached a small example report to show how the measure work:
“Borrow”!
Examine!
BE CREATIVE!
Questions?

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Thank you!