Microsoft Power Tools for Data Analysis #24 Data Models: Data Types & Multiplying and Dividing Notes from Video:

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1) Resultant Data Type After Math Operations in DAX:

Owen at Mr Excel Message Board:

https://www.mrexcel.com/forum/power-bi/1084721-dax-calculated-column-multiplying-order-changes-answer-new-post.html

Original Article by Marco Russo:

https://www.sqlbi.com/articles/understanding-numeric-data-type-conversions-in-dax/

Resultant Data Type After Math Operations in DAX:

		Right Number		
	Result of Adding	Whole Number	Decimal	Currency
Left	Whole Number	Whole Number	Decimal	Currency
Number	Decimal	Decimal	Decimal	Decimal
Number	Currency	Currency	Decimal	Currency

		Right Number		
	Result of Subtract	Whole Number	Decimal	Currency
1 oft	Whole Number	Whole Number	Decimal	Currency
Left	Decimal	Decimal	Decimal	Decimal
Number	Currency	Currency	Decimal	Currency

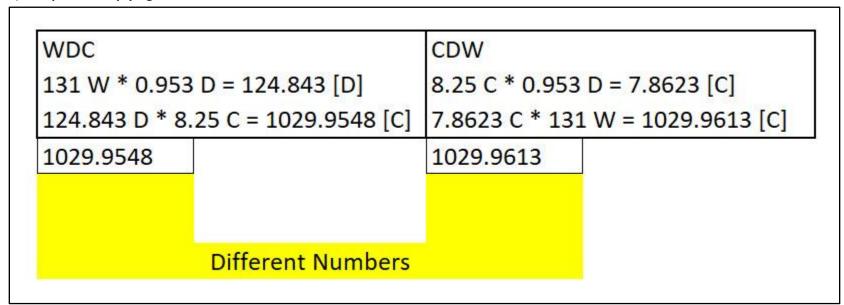
	Section 1	Right Number		
	Result of Multiply	Whole Number	Decimal	Currency
Left	Whole Number	Whole Number	Decimal	Currency
	Decimal	Decimal	Decimal	Currency
Number	Currency	Currency	Currency	Decimal

		Denominator		
	Result of Divide	Whole Number	Decimal	Currency
	Whole Number	Decimal	Decimal	Decimal
Numerator	Decimal	Decimal	Decimal	Decimal
	Currency	Currency	Currency	Decimal

DAX Data Types:

Whole Number Data Type = 0 decimals
Currency (Fixed Decimal) Data Type = 4 decimals
Decimal Data Type = 15 Decimals

2) Steps in Multiplying as seen in Video



3) What to do about discrepancies?

i. Just like we have to pay attention to when rounding is required for a particular business calculation, we have to also pay attention to Data Types when we are creating DAX Formulas that have different Data Types and we are performing multiplication or division.