






BUS 140 Function Palettes and Notes

For all formulas: Do not use absolute references unless the formula is to be copied elsewhere.

PMT (use to find the monthly payment of a loan)

Rate	<input type="text"/>	
Nper	<input type="text"/>	
Pv	<input type="text"/>	
Fv	LEAVE BLANK	
Type	LEAVE BLANK	

Rate: the cell displaying the interest rate

- If the interest rate is expressed in years (i.e., annual or yearly interest rate), use interest rate cell divided by 12.
 - If a cell already displays the number of payments per year (i.e., 12), divide interest rate by this cell reference rather than the actual number 12.
- If the interest rate is already expressed in months, use the interest rate cell only.

Nper: the cell displaying the total number of payments (or “periods”)

- If term of loan is shown in years, multiply by 12 to give total number of monthly payments




PV: the cell displaying present value of the principal (i.e., starting amount financed/borrowed)

- Make this number negative if a positive result is required

FV and Type: Leave blank

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IF

Logical_test	<input type="text"/>	
Value_if_true	<input type="text"/>	
Value_if_false	<input type="text"/>	

Logical Test:





Part I	Part II	Part III
Decision cell	Comparison Operator	Match
<i>Cell you want compared</i>	<i>Use one of: =, >, <, >=, <=</i>	<i>What you want IF to match</i>

Value_if_true: Whatever value, calculation, or comment you want Excel to enter in the cell if the function finds a match

Value_if_false: Whatever value, calculation, or comment you want Excel to enter in the cell if the function does NOT find a match

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VLOOKUP

Lookup_value	<input type="text"/>	
Table_array	<input type="text"/>	
Col_index_num	<input type="text"/>	
Range_lookup	LEAVE BLANK	

Lookup_value: a single cell (never use a cell range) that has the compare value in it (the cell that you want Excel to compare to the lookup table)

Table_array: Highlight the lookup table (without the headings) and







- make the range absolute; OR
- name the range first, then use the range name in this field

Col_index_num: the number of the lookup table column that has the value you want the function to place in the cell

Range_lookup: Leave blank

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PPMT (use to find the Principal portion of a monthly loan payment)




Rate	<input type="text"/>	
Per	<input type="text"/>	
Nper	<input type="text"/>	
Pv	<input type="text"/>	
Fv	LEAVE BLANK	
Type	LEAVE BLANK	

Fill in **Rate, Nper, Pv** exactly as you do in the **PMT function**

Per: is the payment (or “period”) number (usually left as a relative reference)

Reminder note: Do not use absolute references in any formula unless the formula is to be copied elsewhere.

IPMT (use to find the Interest portion of a monthly loan payment)

Rate	<input type="text"/>	
Per	<input type="text"/>	
Nper	<input type="text"/>	
Pv	<input type="text"/>	
Fv	LEAVE BLANK	
Type	LEAVE BLANK	







Fill in **Rate**, **Nper**, **Pv** exactly as you do in the **PMT** function

Per: is the payment (or “period”) number (usually left as a relative reference)

Reminder note: Do not use absolute references in any formula unless the formula is to be copied elsewhere.

CUMIPMT/CUMPRINC

Use CUMIPMT to find cumulative interest; use CUMPRINC to find cumulative principal. The palette looks the same for these functions.

Rate	<input type="text"/>		=
Nper	<input type="text"/>		=
Pv	<input type="text"/>		=
Start_period	<input type="text"/>		=
End_period	<input type="text"/>		=
Type	<input type="text" value="0"/>		=

Fill in **Rate**, **Nper**, **Pv** as you do in the **PMT** function.

- **Note:** making Pv negative does not work in this function

Start_period: cell reference for the first payment number

End_period: cell reference for the final payment number

Type: type in a zero. You cannot leave the field blank in this function.

- Make sure to scroll down so that you can see the Type field.

To make **CUMIPMT** result **positive**, type in a – **sign** between the = and the C (i.e. =-CUMIPMT)

CUMPRINC is filled in exactly as **CUMIPMT**

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