

**CATEGORY: HP12c** 

**TOPIC: CALCULATE MORTGAGE PAYMENT AND** 

**AMOUNT OF BALLOON PAYMENT (BALANCE DUE)** 

Problem 1 – Calculate the periodic mortgage payment and the amount of the balloon payment due given the following terms.

Mortgage amount \$400,000

Annual interest rate for mortgage 7.25%

Loan term 30 years

Amortization/compounding Monthly

Balloon payment due 5 years



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K	KEYSTROKES		DISPLAY	COMMENTS
	f	CLX	0.00	Clear calculator registers
400000	PV		400,000.00	Enters loan amount into PV register
30	g	n	360.00	Multiplies number of years by 12 and enters number of periods (months) into n register
7.25	g	j	0.60	Divides annual interest rate by 12 and enters periodic interest rate into i register
	PMT		-2,728.71	Calculates periodic (monthly) payment
5	g	n	60.00	Calculates balloon period (60 months) and enters into n register
	FV		-377,515.11	Calculates amout of loan balance due (balloon payment) at end of 5 years



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Problem 2 – Calculate the periodic mortgage payment and the amount of the balloon payment due given the following terms.

Mortgage amount \$850,000

Annual interest rate for mortgage 6.4%

Loan term 20 years

Amortization/compounding Quarterly

Balloon payment due 5 years



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Loan term 20 years

Amortization/compounding Quarterly

Balloon payment due 5 years

KEYSTROKES D		DISPLAY	COMMENTS
	f CLX	0.00	Clear calculator registers
850000	PV	850,000.00	Enters loan amount into PV register
6.4	ENTER	6.40	Enters annual interest rate
4	÷ į	1.60	Divides annual interest rate by 4 and enters periodic (quarterly) interest rate into i register
20	ENTER	20.00	Enters number of years
4	x n	80.00	Converts number of years to number of quarters and places value in to n register
	PMT	-18,911.71	Calculates periodic (quarterly) payment
5	ENTER	5.00	Enters number of years of holding perioed (when balloon payment is due)
4	x n	20.00	Converts number of years to number of quarters for balloon pmt and places value in to n register
	FV	-725,957.08	Calculates amout of loan balance due (balloon payment) at end of 5 years



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Problem 3 – Calculate the periodic mortgage payment and the amount of the balloon payment due given the following terms.

Mortgage amount \$1,500,000

Annual interest rate for mortgage 5.9%

Loan term 20 years

Amortization/compounding Semi-Monthly

Balloon payment due 7 years



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Mortgage amount

Annual interest rate for mortgage

Loan term

Amortization/compounding

Balloon payment due

\$1,500,000

5.9%

20 years

Semi-Monthly

7 years

KI	KEYSTROKES DISPLAY		COMMENTS
	f CLX	0.00	Clear calculator registers
1500000	PV	1,500,000.00	Enters loan amount into PV register
5.9	ENTER	5.90	Enters annual interest rate
24	÷ j	0.25	Divides annual interest rate by 24 and enters periodic (semi-monthly) interest rate into i register
20	ENTER	20.00	Enters number of years
24	x n	480.00	Converts number of years to number of number of periods and places value in to n register
	PMT	-5,326.63	Calculates periodic (semi-monthly) payment
7	ENTER	7.00	Enters number of years of holding perioed (when balloon payment is due)
24	x n	168.00	Converts number of years to number of periods and places value in to n register
	FV	-1,159,563.17	Calculates amout of loan balance due (balloon payment) at end of 7 years



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Problem 4 – Calculate the periodic mortgage payment and the amount of the balloon payment due given the following terms.

Mortgage amount \$350,000

Annual interest rate for mortgage 4.75%

Loan term 15 years

Amortization/compounding Annually

Balloon payment due 6 years



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Mortgage amount

Annual interest rate for mortgage

Loan term

Amortization/compounding

Balloon payment due

\$350,000

4.75%

15 years

Annually

6 years

К	EYSTROKES	DISPLAY	COMMENTS
	f CLX	0.00	Clear calculator registers
350000	PV	350,000.00	Enters loan amount into PV register
4.75	i	4.75	Enters annual interest rate
15	n	0.25	Enters number of periods (years) into n register
	PMT	-33,152.40	Calculates periodic (annual) payment
6	ENTER	6.00	Enters number of years of holding perioed (when balloon payment is due)
	FV	-238,286.97	Calculates amout of loan balance due (balloon payment) at end of 6 years