

CATEGORY: HP12c

TOPIC: CALCULATE THE SINKING FUND FACTOR

Problem 1 – Calculate the required periodic payment based on the following information.

Amount to accumulate \$650,000

Annual interest rate 5%

Number of years 7 years
Compounding frequency Monthly

Problem Solution - NEXT PAGE



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Problem Solution

KEYSTROKES DISPLAY		S DISPLAY	COMMENTS
	f CLX	0.00	Clear calculator registers
650000	FV	650,000.00	Enter the amount to be accumulated in the FV register
5	g	0.42	Calculales periodic (monthly) interesrt rate
7	g n	84.00	Calculates number of monthly deposits that need to be made and enters into the n register
	PMT	-6,478.71	Calculates the amount that must be deposited on a monthly basis



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Problem 2 – Calculate the required periodic payment based on the following information.

Amount to accumulate \$142,000

Annual interest rate 7.75%

Number of years 11 years

Compounding frequency Quarterly

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Amount to accumulate \$142,000

Annual interest rate 7.75%

Number of years 11 years

Compounding frequency Quarterly

Problem Solution

K	KEYSTROKES DISPLAY		COMMENTS
	f CLX	0.00	Clear calculator registers
142000	FV	142,000.00	Enter the amount to be accumulated in the FV register
7.75	ENTER	7.75	Enter the annual interest rate
4	÷ į	1.94	Divides annual interest rate by 4 and enters periodic (quarterly) interest rate into i register
11	ENTER	11.00	Enters number of years
4	x n	44.00	Converts number of years to number of quarters and places value in to n register
	PMT	-204.49	Calculates periodic (quarterly) payment



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Problem 3 – Calculate the required periodic payment based on the following information.

Amount to accumulate \$1,025,000

Annual interest rate 3.5%

Number of years 15 years

Compounding frequency Annually

Problem Solution - NEXT PAGE



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Problem 3 – Calculate the required periodic payment based on the following information.

Amount to accumulate \$1,025,000

Annual interest rate 3.5%

Number of years 15 years

Compounding frequency Annually

Problem Solution

KEYSTROKES DISPLAY		DISPLAY	COMMENTS
	f CLX	0.00	Clear calculator registers
1025000	FV	1,025,000.00	Enter the amount to be accumulated in the FV register
3.5	i	3.50	Enter the annual interest rate
14	n	14.00	Enter the number of years (number of payments)
	PMT	-53,120.70	Calculates periodic (annual) payment