Interest Calculations Example 2a

	Principal	\$ 750	,000
Γ	Annual interest rate	8%	
_	Date horrowed	October 1	2006

Simple interest method

Year	Principal	Annual interest rate	No. of months	nterest xpense		Cumluative interest		Principal + Cumulative interest	
2006	\$ 750,000	8%	3	\$ 15,000	(*1)	\$	15,000	\$	765,000
2007	\$ 750,000	8%	12	\$ 60,000	(*2)	\$	75,000	\$	825,000
2008	\$ 750,000	8%	12	\$ 60,000	(*2)	\$	135,000	\$	885,000
2009	\$ 750,000	8%	12	\$ 60,000	(*2)	\$	195,000	\$	945,000
2010	\$ 750,000	8%	12	\$ 60,000	(*2)	\$	255,000	\$ 1	,005,000

(*1) $$750,000 \times 8\% \times (3/12) = $15,000$

(*2) $$750,000 \times 8\% \times (12/12) = $60,000$

Compound interest method

Year	!	Principal	Annual interest rate	No. of months	nterest expense		Cumluative interest		Principal + Cumulative interest	
2006	\$	750,000	8%	3	\$ 15,000	(*3)	\$	15,000	\$	765,000
2007	\$	750,000	8%	12	\$ 61,200	(*4)	\$	76,200	\$	826,200
2008	\$	750,000	8%	12	\$ 66,096	(*5)	\$	142,296	\$	892,296
2009	\$	750,000	8%	12	\$ 71,384	(*6)	\$	213,680	\$	963,680
2010	\$	750,000	8%	12	\$ 77,094	(*7)	\$	290,774	\$ 1	,040,774

(*3) $$750,000 \times 8\% \times (3/12) = $15,000$

(*4) $($750,000 + $15,000) \times 8\% \times (12/12) = $61,200$

(*5) $($750,000 + $15,000 + $61,200) \times 8\% \times (12/12) = $66,096$

(*6) $(\$750,000 + \$15,000 + \$61,200 + \$66,096) \times 8\% \times (12/12) = \$71,384$

(\$750,000 + \$15,000 + \$61,200 + \$66,096 + \$71,384) $\times 8\% \times (12/12) = \$77,094$