Interest Calculations Example 1a

Principal	\$	200,000
Annual interest rate		10%
Date borrowed	Ар	ril 1, 2006

Simple interest method

Year	Prir	ncipal	Annual interest rate	No. of months	lı e	nterest xpense		Cumluative interest		Principal + Cumulative interest	
2006	\$ 2	200,000	10%	9	\$	15,000	(*1)	\$	15,000	\$	215,000
2007	\$ 2	200,000	10%	12	\$	20,000	(*2)	\$	35,000	\$	235,000
2008	\$ 2	200,000	10%	12	\$	20,000	(*2)	\$	55,000	\$	255,000
2009	\$ 2	200,000	10%	12	\$	20,000	(*2)	\$	75,000	\$	275,000
2010	\$ 2	200,000	10%	12	\$	20,000	(*2)	\$	95,000	\$	295,000

(*1) (*2) \$200,000 x 10% x (9/12) = \$15,000 \$200,000 x 10% x (12/12) = \$20,000

Compound interest method

Year	Principal	Annual interest rate	No. of months	lı e:	nterest xpense		Cumluative interest		Principal + Cumulative interest	
2006	\$ 200,00	0 10%	9	\$	15,000	(*3)	\$	15,000	\$	215,000
2007	\$ 200,00	0 10%	12	\$	21,500	(*4)	\$	36,500	\$	236,500
2008	\$ 200,00	0 10%	12	\$	23,650	(*5)	\$	60,150	\$	260,150
2009	\$ 200,00	0 10%	12	\$	26,015	(*6)	\$	86,165	\$	286,165
2010	\$ 200,00	0 10%	12	\$	28,617	(*7)	\$	114,782	\$	314,782

(*3)	\$200,000 x 10% x (9/12) = \$15,000
(*4)	(\$200,000 + \$15,000) x 10% x (12/12) = \$21,500
(*5)	(\$200,000 + \$15,000 + \$21,500) x 10% x (12/12) = \$23,650
(*6)	(\$200,000 + \$15,000 + \$21,500 + \$23,650) x 10% x (12/12) = \$26,015
(*7)	$(200,000 + 15,000 + 21,500 + 23,650 + 26,015) \times 10\% \times (12/12) = 28,617$