

Formulas for interest calculations:

	Interest	Future Value	Present Value
Simple Interest	$I = Prt$	$A = P(1 + rt)$	$P = \frac{A}{1 + rt}$
Compound Interest	$I = A - P$	$A = P(1 + i)^n$	$P = \frac{A}{(1 + i)^n}$
Continuous Interest	$I = A - P$	$A = Pe^{rt}$	$P = \frac{A}{e^{rt}}$

1. Find the simple interest for an investment of \$4902 at 9.5% for 11 months.
2. Find the future value of an investment of \$3478 at 7.4% for 88 days (assume 365 days in a year). (This implies simple interest because of the short term of the loan.)
3. Find the present value of the future amount \$459.57 if the money is invested at a simple interest rate of 8.5% for 7 months.
4. Find the amount of money in an account in which the initial deposit is \$2800 earning 6% interest compounded annually after 10 years.
5. Find the present value of the future amount \$42,000 if the money is deposited in an account paying 12% compounded monthly for 7 years.