

P4-11 Present values For each of the cases shown in the following table, calculate the present value of the cash flow, discounting at the rate given and assuming that the cash flow is received at the end of the period noted.

Case	Single cash flow	Discount rate	End of period (years)
A	\$ 7,000	12%	4
B	28,000	8	20
C	10,000	14	12
D	150,000	11	6
E	45,000	20	8

P4-12 Present value concept Answer each of the following questions.

- What single investment made today, earning 12% annual interest, will be worth \$6,000 at the end of 6 years?
- What is the present value of \$6,000 to be received at the end of 6 years if the discount rate is 12%?
- What is the most you would pay today for a promise to repay you \$6,000 at the end of 6 years if your opportunity cost is 12%?
- Compare, contrast, and discuss your findings in parts a through c.

P4-13 Time value Jim Nance has been offered a future payment of \$500 three years from today. If his opportunity cost is 7% compounded annually, what value should he place on this opportunity today? What is the most he should pay to purchase this payment today?

P4-14 Time value An Iowa state savings bond can be converted to \$100 at maturity 6 years from purchase. If the state bonds are to be competitive with U.S. savings bonds, which pay 8% annual interest (compounded annually), at what price must the state sell its bonds? Assume r.c. cash payments on savings bonds prior to redemption.