1. RETIREMENT SAVINGS PLANNING: You are twenty-eight years old and currently have no savings or debt. You plan to retire at age $\mathbf{7 0}$ years when you will collect social security payments. Once you retire, you plan to live another 20 years.

1A. DETERMINE TARGET RETIREMENT INCOME: When you retire, you want annual income of $\$ 35,000$ in today's dollars to supplement your social security checks. You anticipate that the overall rate of inflation will be $3 \%$ per year. Convert a current value of $\$ 35,000$ in today's dollars to an inflation-adjusted value when you reach the age of $\mathbf{7 0}$ years?

1B. DETERMINE TARGET RETIREMENT SAVINGS: Now consider you have reached age $\mathbf{7 0}$ years. How much savings is required to support the inflation-adjusted target income per year calculated in \#1A for your anticipated period of retirement? Assume the account earns an annual rate of return of $6 \%$.

1C. DETERMINE REQUIRED ANNUAL SAVINGS: Beginning today, how much must be saved each year to attain your target retirement savings goal determined in \#1B?
2. FIXED BENEFIT EMPLOYEE RETIREMENT COSTS: Your business is assessing the cost of its fixed benefit retirement program. A typical employee earns a salary of \$75,000 per year when they retire at 64 years old, and will have worked 30 years at the company at that time. The current program pays employees $70 \%$ of their annual salary from the time they retire until they pass away. There are no cost-of-living adjustments, so the annual retirement payments do not change during the remainder of the employee's life. Actuarial tables show that the typical employee lives to the age of 87 years. The company retirement accounts earn an annual return of 7\%.

2A. How much will the employee be paid each year at retirement?
2B. When the typical employee retires, how much must the company have saved to pay them the annual payment calculated in \#2A for the remainder of their life?

2C. How much must the company deposit every year during the employee's 30 years of employment in order to attain the savings target calculated in \#2C?

2D. To reduce employee costs, the company decides to replace its fixed benefit program with a defined contribution program. How much can the employer contribute to the typical employee's retirement account if the company wants to cut its annual employee retirement benefit costs by $\mathbf{\$ 2 , 0 0 0}$ per employee.

2 BONUS: How much does the employer need to save for employees who work thirty years, but can retire at the age of 55 years because they began working at the company when they were $\mathbf{2 5}$ years old?

1A.

1B.

1C.

2A.

2B.

2C.

2D.

2 BONUS.


## 8. INCOME STATEMENT Year Four

## One Bedroom Units

Two Bedroom Units

Total

Vacancy \& Collection Loss

## Real Estate Taxes

$\qquad$
Insurance $\qquad$

Utilities $\qquad$
Maintenance $\qquad$
Other/Reserves $\qquad$
Total $\qquad$

