



REFERENCE TO OTHER REFERENCE GUIDE

BUSINESS MATH FORMULAS

BASIC FORMULAE & DEFINITIONS FOR AN INTRODUCTORY COURSE IN BUSINESS MATHEMATICS

MARKUP & MARKDOWN

- Wholesale** Amount required to cover operating expenses and make a profit
- cost of goods + value for retailer pays the supplier or manufacturer the price
 - selling price of goods to retail the customer pays the retailer the profit less the retailer's percentage price
 - cost + markup = selling price
 - markup for wholesaler = selling price - cost

Wholesale Based on Cost

- percent markup on cost = markup / cost
- percent markup on cost = percent markup on selling price * (2 - percent markup on selling price)

Wholesale Based on Selling Price

- percent markup on selling price = markup / selling price
- percent markup on selling price = percent markup on cost * (2 - percent markup on cost)

Retailer

- markdownto = original selling price - marked down price
- markdownto = percent * markdownto = original selling price
- markdownto = markdownto percent / original selling price

Finding Markdownto Value of Goods

- selling price per unit = (total cost of all units + percent markup on cost (total cost of all units)) / (total units - total quoted units)

DISCOUNT

Discounts Available to a Retailer

Trade Discounts Discounts given to persons in the distribution channel of goods, also called **functional discounts**, and are given to distributors related to quantity purchased.

- net price = list price - trade discount amount

Cash Discounts Discounts given to customers for paying with cash, cash discount is also called **cash discount** for either to purchase discount in favor.

- cash discount = selling price (or invoice amount) * cash discount rate
- net price = list price - selling price - cash discount

Trade Allowance Amount not usually stated in credit terms, trade allowance means that a 2% cash discount is allowed if payment is made within 10 days of the date of the invoice, cash discount can also apply when the buyer receives the goods despite of goods.

PERCENT

Pay Based on Monthly Wages Pay is based on hours of work done

- gross pay = number of regular hours * regular hourly rate + number of overtime hours * overtime hourly rate

Pay Based on Piece Works Pay is based on acceptable pieces of work completed

- gross pay = total number of acceptable pieces produced * piece work rate

Pay Based on Commission Commission is a percentage of sales, usually paid to the person producing the sales

- gross pay = commission + sales * commission rate

INTEREST

Exact Number of Days Interest is calculated over a year period, from when a loan is given to the end date, day the loan is due, from 0 to 365 (or 366) is included in the period.

- Business days period, the actual number of days in each month should be known.

Fig. 20 shows both **Ordinary**, April, June, and **Bankers'** of the year **Days** (30, assuming ordinary years, which have 365, in them, all year year given 0.25).

- Leap years are divisible by 4, which is why 2000 was a leap year and after that an even year is added to February to extra days.

Simple Interest Time is expressed in the same units as the rate, 365 is an annual rate, time 1 is in years.

- simple interest (SI) = principal (P) * rate (R) * period (T) = rate (R)

- aturity value = principal + interest
- SI is principal in the form for investment (amount of borrowed amount time value), I is the amount of interest paid for the loan or received on the investment, P is the present value of amount paid for the total of amount due to receive or invest for making the money.

Exact Interest Rate is 1/360

- total number of days

- ordinary interest (Banker's Rule) Rate is 1/360 (360 days of year)

Partial Payment Rule Any partial loan payment is first used to pay the interest that has accrued (total amount to interest) and the remainder is used to reduce the principal of the loan.

Compound Interest Interest that is paid on both the principal and the interest accumulated from past periods, interest period is added to the original investment.

- aturity value = $P(1 + r)^n$
- where P = principal, r = interest rate, n = number of periods, or a number of years.

Effective Interest maturity value (effective value) = $P(1 + r)^n$

- where P = loan or present value of principal, r = interest rate, n = number of periods, or a number of years.

Present & Future Value

- present value (PV) is value of the amount accumulated today
- future value (FV) or maturity value is final amount of the loan or investment at the end of the loan period

Simple Interest Future Value

- $FV = PV + SI = P(1 + rT)$
- where P = interest rate per period, n = number of periods

Compound Interest Future Value

- $FV = PV(1 + r)^n$
- where P = interest rate per period, n = number of periods

Interest Earned = $FV - PV$

DEPRECIATION

Depreciation Loss in value of tangible business assets or property, including both cost in useful life due to deterioration, obsolescence, use, or other causes.

Depreciation can be either **straight-line** (depreciation divided equally to operating expenses) and **depreciation** based on cost of property.

- accumulated depreciation = total amount of depreciation to date
- cost of asset = cost paid for asset, including freight
- book value of asset = cost of asset - accumulated depreciation

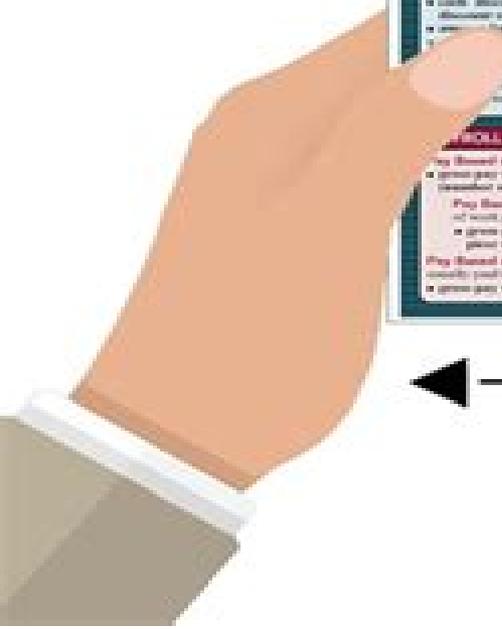
Modified value or **salvage value**, usage value or **cash value** of asset at end of useful life.

Straight-Line Method Depreciation expense is equal over each year of the useful life.

- depreciation expense per year = $(\text{cost} - \text{salvage value}) / \text{useful life}$
- annual useful life of asset in years
- percentage depreciation expense = $\text{depreciation expense per year} \times \text{number of months of period the asset is used} / 12$

Units of Production Method Depreciation expense based on the extent of the use.

- depreciation rate per unit = $(\text{cost} - \text{salvage value}) / \text{total units produced}$



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Business Math Study Guide

J Dewey



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