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Mergers and Acquisitions Formulas

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List of 10 Mergers and Acquisitions Formulas

Mergers and Acquisitions

1) Accretion Amount

$$fx \quad AA = \left((PB) \cdot \left(\frac{YTM}{APPY} \right) \right) - CI$$

[Open Calculator !\[\]\(a870788d6ed9b8fd294b7654a8c8526b_img.jpg\)](#)

$$ex \quad 394500 = \left((2000) \cdot \left(\frac{1200}{6} \right) \right) - 5500$$

2) Control Premium

$$fx \quad CLP = \frac{TPR - MP}{EP}$$

[Open Calculator !\[\]\(c50c8b7b2cc2cf9ff925edec0ee94c0d_img.jpg\)](#)

$$ex \quad 1.002857 = \frac{5005 - 1495}{3500}$$


3) Gain of Acquirer

$$fx \quad GAQ = S - (PT - VT)$$

[Open Calculator !\[\]\(f60b7a900783ac3fd531bfd9c111be6d_img.jpg\)](#)

$$ex \quad 19990 = 25000 - (10000 - 4990)$$



4) Goodwill 

$$fx \quad G = CP + FVNI + FVEI - FVNR$$

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$$ex \quad 2500 = 1300 + 1700 + 2300 - 2800$$

5) Merger Arbitrage Spread 

$$fx \quad MARS = RP + RFR$$

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$$ex \quad 254.08 = 254 + 0.08$$

6) Post Merger EPS 

$$fx \quad PME = \frac{TEAP}{TNSA}$$

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$$ex \quad 5.2 = \frac{520}{100}$$

7) Post Merger PE 

$$fx \quad PMP = WAEA + WAET$$

Open Calculator 

$$ex \quad 4.2 = 1.30 + 2.90$$

8) Post Merger Share Price of Acquirer 

$$fx \quad PMSPA = APR \cdot APE$$

Open Calculator 

$$ex \quad 1.995 = 1.5 \cdot 1.33$$



9) Post Merger Value of Merged Company

$$\text{fx } \text{PMV} = \text{PVA} + \text{VT} + \text{S} - \text{C}$$

[Open Calculator !\[\]\(e78f798d4ea5c530c9db49e7d26e6b95_img.jpg\)](#)

$$\text{ex } 40990 = 20000 + 4990 + 25000 - 9000$$

10) Takeover Premium

$$\text{fx } \text{TPM} = \text{PT} - \text{VT}$$

[Open Calculator !\[\]\(05be7c7a8995decd503647c99211f7c2_img.jpg\)](#)

$$\text{ex } 5010 = 10000 - 4990$$



Variables Used

- **AA** Accretion Amount
- **APE** Acquirer Post Merger Eps
- **APPY** Accrual Period Per Year
- **APR** Acquirer Pre Merger PE Ratio
- **C** Cash Paid to Shareholders
- **CI** Coupon Interest
- **CLP** Control Premium
- **CP** Consideration Paid
- **EP** Estimated Price
- **FVEI** Fair Value of Equity Previous Interest
- **FVNI** Fair Value of Non Controlling Interest
- **FVNR** Fair Value of Net Assets Recognized
- **G** Goodwill
- **GAQ** Gain of the Acquirer
- **MARS** Merger Arbitrage Spread
- **MP** Market Price
- **PB** Purchase Basis
- **PME** Post Merger Eps
- **PMP** Post Merger Pe
- **PMSPA** Post Merger Share Price of Acquirer
- **PMV** Post Merger Value of Merged Company
- **PT** Price Paid for Target Company
- **PVA** Pre Merger Value of the Acquirer
- **RFR** Risk Free Rate










- **RP** Risk Premium
- **S** Synergies Generated
- **TEAP** Total Earnings of the Acquirer Post Merger
- **TNSA** Total Number of Shares of Acquirer
- **TPM** Takeover Premium
- **TPR** Takeover Price
- **VT** Pre Merger Value of Target Company
- **WAEA** Weighted Average Eps of Acquirer
- **WAET** Weighted Average Eps of Target
- **YTM** Yield to Maturity



Constants, Functions, Measurements used



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