

## A

Active client flowchart, 214  
 Activity ratios, 23–24  
 Adherence to organization standards, 54  
 Adjusted book value method, 28. *See also* Asset approach  
 Agriculture activity, 17  
 Answers to exercises/test question  
   asset approach, 135–136  
   business valuation standards, 137  
   buy-sell agreements, 138–139  
   cost of capital/rates of return, 134–135  
   divorce actions/valuations, 139–140  
   employee ownership stock plans (ESOPs), 139  
   family limited partnerships, 138–139  
   financial statement analysis, 132–133  
   income approach, 133–134  
   intangible assets valuation issues, 140  
   introduction to financial valuation, 131  
   market approach, 135  
   pass-through entities, 137–138  
   preferred stock valuation issues, 137–138  
   professional practice valuation issues, 139–140  
   report writing, 136–137  
   research/presentation, 132  
   restricted stock valuation, 137–138  
   shareholder disputes, 139  
   small business valuation issues, 139–140  
   standards of value, 131–132  
   stock options, 137–138  
   taxation, 138  
   valuation discounts and premiums, 136  
 “As of” valuation date, 2, 53

Asset approach, 86  
   adjusted book value method, 28  
   answers to exercises/test questions, 135–136  
   excess cash flow method, 28–29, 60–61  
   exercises/test questions, 109–110  
   overview, 27  
   ValTips, 150–151  
 Asset management, VIR checklist, 277  
 Asset management ratio, 24  
 Assets, other, VIR checklist, 276–277

## B

Background/history, VIR checklist, 279  
 Balance sheets, 20–21  
 Banking facilities, VIR checklist, 276  
 Banking/finance activity, 16  
 Banking/holding company, VIR checklist, 274–279  
 Benchmark financial ratio drawbacks, 59–60  
 Beta, 34–35, 69–70  
 Bizcomps, 77  
 Build-up method, 35, 36, 68–69, 70–71  
 Business damages, ValTips, 164–165  
 Business valuation reports, non-appraiser’s guide to reviewing, 376–377  
 Business valuation standards  
   answers to exercises/test questions, 137  
   exercises/test questions, 116–117  
   ValTips, 153  
 Business valuation *vs.* real estate appraisal checklist, 266  
 Buy-sell agreements  
   answers to exercises/test questions, 138–139  
   exercises/test questions, 124–125  
   ValTips, 165–166

## C

Cable TV industry, ValTips, 172–173  
 Capital expenditures, adjusting cash flows for, 66  
 Capitalization rate, 76  
 Capitalized cash flow (CCF) model, 29–33, 41–42, 49, 61–62, 65–67, 76–77. *See also* Income approach  
 Capital structure/ownership, 9, 75–76  
 Cash flow adjustment, 66  
 Client analysis flowchart, 216  
 Client information inventory flowchart, 215  
 Collection period ratio, 23  
 Common stock equity risk premium, 36  
 Company-specific risk premium, 36–37  
 Competition, VIR checklist, 279  
 Composite Index of Leading Economic Indicators, 11  
 Construction activity, 16  
 Construction industry  
   management interview checklist, 314–319  
   ValTips, 171  
   VIR checklist, 292–297  
 Construction outlook, 13–14  
 Consumer Price Index (CPI), 11–12  
 Consumer spending, national, 12  
 Contact information summary, 253  
 Contact sheet, 234–235  
 Control cash flows, 30–32, 63  
 Control interest *vs.* minority interest, 30–32, 63–65, 70  
 Controlling interest, 44, 55–56  
 Control stand-alone value, 54  
 Control synergistic/strategic value, 54  
 Conventional value, 144  
 Copyrights, VIR checklist, 320  
 Corporate documents/records, VIR checklist, 272–273, 275–276, 281, 285–286, 289, 297  
 Correlation and reconciliation of value, 84–85  
 Cost approach, for intangible assets, 329–330  
 Cost of capital/rates of return  
   answers to exercises/test questions, 134–135  
   exercises/test questions, 100–104  
   ValTips, 145–147  
 Cost of debt, 39  
 Cost of equity, 73, 74  
 Cost of equity income approach, 34–39

Cover page for report, 259  
 Current ratio, 22  
 Customer relationships, VIR checklist, 321

## D

Data processing facilities, VIR checklist, 277  
*Daubert* challenges, 192–193  
 Debt, ValTips, 166  
 Debt-to-equity ratio, 25  
 Depreciation, adjusting cash flows for, 66  
 Depreciation expense, 31  
 Direct equity basis, 30, 62, 68  
 Discount case study exercises, 50–51, 85–86  
 Discounted cash flow (DCF) method, 42, 62, 77, 86. *See also* Income approach  
 Discount for lack of marketability (DLOM), 47–49, 50–51, 85  
 Divorce actions/valuations  
   answers to exercises/test questions, 139–140  
   exercises/test questions, 127  
   ValTips, 159  
 Document control system report, 248  
 DoneDeals, 77  
 Duff & Phelps data, 35, 36, 38, 70–71, 86

## E

Early-stage technology companies, ValTips, 167  
 Early termination flowchart, 220  
 Early termination letter, 263  
 Economic benefit streams, 33, 67  
 Economic cycle, 58–59  
 Economic data, types of, 15, 57  
 Economic indicators for valuation, 14, 57  
 Eminent domain  
   review checklist, 373–375  
   VIR checklist, 280–281  
 Employee stock ownership plans (ESOPs)  
   answers to exercises/test questions, 139  
   exercises/test questions, 126  
   VIR checklist, 274

- End of assignment/archive client  
flowchart, 220
- Engagement, flowchart, 214
- Engagement letters, 188  
cover letter for, 243  
declination, 237  
example, 189–194  
follow up letter, 245  
schedule for, 244
- Engineering data, VIR checklist, 281
- Excess cash flow method, 28–29,  
60–61. *See also* Asset approach
- Excess/nonoperating assets, 31–32
- Exercises/test questions  
asset approach, 109–110  
business valuation standards,  
116–117  
buy-sell agreements, 123–125  
cost of capital/rates of return, 100–105  
divorce actions/valuations, 126–128  
employee ownership stock plans  
(ESOPs), 125–126  
family limited partnerships, 123–125  
financial statement analysis, 93–96  
income approach, 96–100  
intangible assets valuation issues,  
128–130  
introduction to financial valuation,  
87–90  
market approach, 104–109  
pass-through entities, 117–120  
preferred stock valuation issues,  
117–120  
professional practice valuation issues,  
127–128  
report writing, 114–116  
research/presentation, 91–93  
restricted stock valuation, 117–120  
risk analysis, 132–133  
shareholder disputes, 125–126  
small business valuation issues,  
126–128  
standards of value, 90–91  
stock options, 117–120  
tax valuations, 120–123  
valuation discounts and premiums,  
110–114
- F**
- Facilities, VIR checklist, 271–272, 280,  
285, 288–289, 291, 295–296
- Fair market value, 9, 54
- Fair value financial reporting, 54
- Fair value measurement checklist,  
380–385
- Fair value state actions, 54
- Family limited partnerships (FLPs)  
answers to exercises/test questions,  
138–139  
exercises/test questions,  
123–124  
ValTips, 156–158
- Federal Reserve Open Markets  
Committee (FOMC), 13
- Final review checklist, 260–261
- Financial data, historical, 19
- Financial documents, other, VIR  
checklist, 274–275
- Financial information, VIR checklist,  
268–269, 280, 282, 284, 287,  
290, 292–293
- Financial markets outlook, 12–13
- Financial ratio analysis, 22
- Financial reporting, ValTips, 165
- Financial reporting valuation, auditor  
review of, 378–379
- Financial review, management interview  
checklist, 302–304
- Financial statement/company risk  
analysis  
answers to exercises/test questions,  
132–133  
exercises/test questions, 93–96  
ValTips, 143
- Financial statements, VIR  
checklist, 274
- Fixed assets activity ratio, 24
- Flotation costs, 83
- Flowcharts, workflow procedures,  
212–220  
active client, 214  
analysis, 216  
early termination of assignment, 220  
end of assignment/client archive, 220  
engagement, 214  
initial client contact, 213  
inventory of client information, 215  
issue report, 219  
overview, 213  
report setup, 216  
report to final review, 218  
report to principals, 218–219  
report to project manager, 217
- Formats for value conclusion, 54

## G

- Gas and oil rights, VIR checklist, 282–283
- General economic overview, 11
- Gross domestic product (GDP), 57
- Growth rates, 76–77
- Guideline company transactions method (GCTM), 42–44, 49. *See also* Market approach
- Guideline public company method (GPCM), 44–47, 49, 79–82, 86. *See also* Market approach

## H

- Hamada formula, 35, 69
- Healthcare services, ValTips, 169–171
- High-tech businesses, VIR checklist, 284–286
- Historical financial data
  - balance sheets, 20–21
  - financial ratio analysis, 22
  - importance of, 19, 58
  - income statements, 19–20
  - liquidity ratios, 22–26
- Historical statements, 93–94
- Housing outlook, 13–14

## I

- Ibbotson data, 35, 36, 37–38, 70–72, 77, 86
- Income approach, 61, 67, 77
  - answers to exercises/test questions, 133–134
  - capitalized cash flow method, 29–33, 41–42
  - cost of equity, 68–69
  - discounted cash flow method, 42
  - exercises/test questions, 96–100
  - for intangible assets, 330, 331–332
  - overview, 27
  - ValTips, 143–145
  - weighted average cost of capital (WACC), 34–42
- Income approach valuation process flowchart
  - example/usage, 176–183
  - overview, 175
- Income statements, 19–20
- Industry outlook factors, 19, 57–58

- Industry research. *See* Research/presentation
- Inflation, 12, 57
- Initial client contact flowchart, 213
- In-process research and development (IPRD), VIR checklist, 322
- Institute of Business Appraisers (IBA) database, 42–44, 77
- Insurance agency, management interview checklist, 305–307
- Intangible assets
  - answers to exercises/test questions, 140
  - exercises/test questions, 128–130
  - ValTips, 161–163
  - valuation procedure checklist, 328
- Interest rate changes, industry effects, 56–57
- Interest rates outlook, 13
- Internal report sign-off, 252
- Intrinsic value, 54
- Introduction to financial valuation
  - answers to exercises/test questions, 131
  - exercises/test questions, 87–90
  - ValTips, 141
- Invested capital basis, 62–63, 67
- Invested cash flow basis, 30
- Investment value, 54
- IPO studies, 83
- Issue report flowchart, 219

## K

- Key information requirements checklist, 267
- Know-how, VIR checklist, 323

## L

- Labor markets, 17
- Lead and project information sheet, 238
- Lead follow up letter, 242
- Lead schedule, 241
- Lending activity, 16
- Lending concentrations, VIR checklist, 278
- Lending policy/practice, VIR checklist, 278
- Levels of value, 7, 54–55
- Leverage ratios, 24–25
- Liquidity discount. *See* Marketability/liquidity discount

Liquidity management, VIR checklist, 277  
 Liquidity ratios, 22–23  
 Loan portfolio information, VIR checklist, 277–278  
 Local economic data, 17–18  
 Local economic data, VIR checklist, 279

## M

Management/directorate, VIR checklist, 278–279  
 Management interview checklist  
   construction industry, 314–319  
   financial review, 302–304  
   insurance agency, 305–307  
   medical practices, 310–313  
   operations, 298–301  
   patents, 336–337  
   professional practices, 308–309  
 Management schedule, 247  
 Manufacturing activity, 16  
 Marketability/liquidity discount, 47–49, 78, 82–84  
 Market approach  
   answers to exercises/test questions, 135  
   exercises/test questions, 104–109  
   guideline company transactions  
     method (GCTM), 42–44  
   guideline public company method (GPCM), 44–47  
   for intangible assets, 330, 331  
   overview, 27  
   ValTips, 147–150  
 Marketing letter, 239–240  
 Markets, VIR checklist, 269–270, 280, 284, 293–294  
 Math review checklist, 250–251  
 Measures of risk, 38–39, 73–74  
 Medical practice  
   management interview checklist, 310–313  
   VIR checklist, 290–291  
 Mergerstat Review, 77, 83  
 Minority cash flows, 30–32  
 Minority marketable value, 55  
 Minority nonmarketable value, 55  
 Modified capital asset pricing  
   model (MCAPM), 35, 36, 68–70, 83  
 Multiples for valuation, 46–47

## N

National economic outlook, 10–15  
 Net fixed-assets-to-equity ratio, 25  
 New client exhibit request, 249  
 New client report request, 254–255  
 New client set-up checklist, 246  
 Nonbank subsidiaries, VIR checklist, 277  
 Nonoperating/excess assets, 64–65

## O

Operations  
   management interview checklist, 298–301  
   VIR checklist, 270–271, 280, 282–283, 284–285, 288, 290–291, 294–295  
 Optimal capital structure, 68  
 Option pricing models, 83  
 Organizational standards compliance, 3  
 Ownership/capital structure, 9  
 Ownership interest levels, 84, 87. *See also* Control interest *vs.* minority interest

## P

Pass-through entities  
   answers to exercises/test questions, 137–138  
   exercises/test questions, 118  
   ValTips, 154–155  
 Patents  
   management interview checklist, 336–337  
   VIR checklist, 324  
 Personnel, VIR checklist, 272, 280–281, 285, 289, 291, 296–297  
 Practice management workflow. *See* Workflow procedures  
 Pratt's Stats database, 42–43, 77, 86  
 Preferred stock  
   answers to exercises/test questions, 137–138  
   exercises/test questions, 117–120  
   ValTips, 166  
 Presentation of valuation conclusions, 7  
 Producer Price Index (PPI), 12  
 Products, VIR checklist, 269–270, 280, 284, 293–294

Professional practice  
 answers to exercises/test questions,  
 139–140  
 exercises/test questions, 127–128  
 management interview checklist,  
 308–309  
 ValTips, 160–161  
 VIR checklist, 287–289  
 Profitability ratios, 25–26  
 Proprietary process/products technology,  
 VIR checklist, 326  
 Public company valuation, ValTips, 165  
 Purposes for valuation, 3

## Q

Quantitative Marketability Discount  
 Model, 83  
 Quick ratio, 22–23

## R

Radio industry, ValTips, 172  
 Real estate activity, 16  
 Real estate outlook, 13–14  
 Real options, ValTips, 168  
 Reconciliation of values, 49  
 Regional economic data, 15–17  
 Regulation/regulatory compliance, VIR  
 checklist, 278  
 Relationship review checklist, 236  
 Relief from royalties method, checklist,  
 332–333  
 Report cover letter, 262  
 Report flowcharts  
 issue report, 219  
 report to final review, 218  
 report to principals, 218–219  
 report to project manager, 217  
 setup, 216  
 Report setup flowchart, 216  
 Report to final review flowchart, 218  
 Report writing  
 answers to exercises/test questions,  
 136–137  
 exercises/test questions, 114–116  
 ValTips, 153  
 Representation and engagement letter  
 cover letter, 243  
 Research/presentation  
 answers to exercises/test questions,  
 132

exercises/test questions, 91–93  
 ValTips, 142–143  
 Restaurant industry, ValTips, 173  
 Restricted stock  
 answers to exercises/test questions,  
 137–138  
 exercises/test questions, 118  
 ValTips, 166–167  
 Restricted stock studies, 83  
 Return on assets ratio, 26  
 Return on equity ratio, 26  
 Revenue ruling 59–60, 56, 58–59, 61  
 checklist, 338–343  
 eight tenets of, 9–10  
 Revenue ruling 68–609, 61  
 Revenue ruling 77–287, 61, 344–348  
 Revenue ruling 83–120, 61  
 Revenue ruling 93–112, 349–350  
 Risk measures, 38–39, 73–74  
 Risk premiums, 71–72  
 Royalty factors, checklist, 334–335

## S

Scope of work, 5–8  
 S corporation valuation, 8, 55  
 Services/markets, VIR checklist,  
 287–288  
 Shareholder disputes  
 answers to exercises/test questions,  
 139  
 exercises/test questions, 125–126  
 ValTips, 158–159  
 Shareholder value maximization,  
 ValTips, 169  
 Size guidelines, 78  
 Size risk premium, 36  
 Small business valuation  
 answers to exercises/test questions,  
 139–140  
 exercises/test questions, 127–128  
 ValTips, 159–160  
 Software, VIR checklist, 325  
 SSVS No. 1, 2, 53  
 Standards adherence, 54  
 Standards of value, 4, 9–10, 54  
 answers to exercises/test questions,  
 131–132  
 exercises/test questions, 90–91  
 ValTips, 141–142  
 Statement of Standards for Valuation  
 Services No. 1 (SSVS No. 1), 2

- compliance checklist, valuation engagement, 354–364
  - compliance checklist, valuation engagement (detailed report), 365–372
  - Stock options
    - answers to exercises/test questions, 137–138
    - ValTips, 167–168
  - Straight historical average, 66
  - Subject interest valuation, 6–7
- T**
- Tax adjustments, 33, 66–67
  - Tax valuations
    - answers to exercises/test questions, 138
    - exercises/test questions, 120–123, 124
    - interest expense, 74
    - S corporations, 8
    - ValTips, 155–156
  - Trademark/trade name, VIR checklist, 327
  - Transaction data, 42–43, 77–78
  - Trust department activities, VIR checklist, 277
  - Types of economic data, 15
- U**
- Understanding with client, 5–8
  - Unemployment outlook, 14
- V**
- ValTips
    - asset approach, 150–151
    - business damages, 164–165
    - business valuation standards, 153
    - buy-sell agreements, 165–166
    - cable TV industry, 172–173
    - construction industry, 171
    - cost of capital/rates of return, 145–147
    - debt, 166
    - divorce actions/valuations, 159
    - early-stage technology companies, 167
    - family limited partnerships (FLPs), 156–158
    - financial statement/company risk analysis, 143
    - healthcare services, 169–171
    - income approach, 143–145
    - intangible assets, 161–163
    - introduction to financial valuation, 141
    - market approach, 147–150
    - pass-through entities, 154–155
    - preferred stock, 166
    - professional practices, 160–161
    - public companies/financial reporting, 165
    - radio industry, 172
    - real options, 168
    - report writing, 153
    - research/presentation, 142–143
    - restaurant industry, 173
    - restricted stock, 166–167
    - shareholder disputes, 158–159
    - shareholder value maximization, 169
    - small business valuation issues, 159–160
    - standards of value, 141–142
    - stock options, 167–168
    - tax valuations, 155–156
    - valuation discounts and premiums, 151–152
    - valuation services group, 163–164
  - Valuation conclusion presentation, 7
  - Valuation date, 2, 53
  - Valuation discounts and premiums
    - answers to exercises/test questions, 136
    - exercises/test questions, 110–114
    - ValTips, 151–152
  - Valuation engagement checklist, 354–364
  - Valuation engagement checklist (detailed report), 365–372
  - Valuation Information Request (VIR) checklists
    - bank/holding company, 274–279
    - construction industry, 292–297
    - copyrights, 320
    - customer relationships, 321
    - eminent domain, 280–281
    - gas and oil rights, 282–283
    - general, 268–273
    - high-tech business, 284–286
    - in-process research and development (IPRD), 322
    - know-how, 323

- Valuation Information Request (VIR)
    - checklists (*Continued*)
    - medical practice, 290–291
    - patents, 324
    - professional practice, 287–289
    - proprietary process/products
      - technology, 326
    - software, 325
    - trademark/trade name, 327
  - Valuation levels, 7
  - Valuation methods and approaches, 27–47, 60
  - Valuation multiples, 46–47
  - Valuation purposes, 3, 53, 87
  - Valuation report and exercises, 1–51
  - Valuation reports, non-appraiser's guide to reviewing, 376–377
  - Valuation services
    - arbitration/mediation, 192
    - assumptions/limiting conditions
      - examples, 194–200
    - billing, 201–202
    - control sheet sample, 208–209
    - Daubert* challenges, 192–193
    - disclaimer, 190
    - engagement letters, 188, 189–194
    - fees/billing, 190–191
    - firm staffing, 202–204
    - keeping up technically, 200–201
    - litigation engagements, 203–204
    - marketing, 185–187
    - productivity, 201–202
    - risk management fee, 187–189
    - sample website/newsletter, 205–207
    - ValTips, 163–164
  - Value conclusion formats, 54
  - Value correlation and reconciliation, 84–85
  - Value indications, 49
- W**
- Weighted average cost of capital (WACC), 34–42, 68, 74. *See also*
    - Income approach
    - cost of debt, 39
    - cost of equity, 34–39
    - weights calculation, 75
  - Word processing checklist, 256–258
  - Workflow procedures
    - active client, 224–226
    - analysis, 226–228
    - cold (concept) review, 231
    - contact information summary, 253
    - contact sheet, 234–235
    - cover page for report, 259
    - document control system report, 248
    - early termination letter, 263
    - early termination of assignment, 232–233
    - end of assignment/client archive, 233
    - engagement declination letter, 237
    - engagement letter schedule, 244
    - final review checklist, 260–261
    - flowcharts, 212–220
    - initial client contact, 221–222
    - internal report sign-off, 252
    - inventory of client information, 226
    - issuing report to client, 232
    - lead follow up letter, 242
    - lead schedule, 241
    - management schedule, 247
    - marketing letter, 239–240
    - math review checklist, 250–251
    - new client exhibit request, 249
    - new client report request, 254–255
    - new client set-up checklist, 246
    - obtaining the engagement, 222–224
    - overview, 211
    - relationship review, 236
    - report cover letter, 262
    - report setup, 228
    - report to final review, 230
    - report to principals, 230–231
    - report to project manager, 229–230
    - representation and engagement follow up letter, 245
    - representation and engagement letter cover letter, 243
    - word processing checklist, 256–258
  - Working capital, 67–68
  - Working capital adjustment formula, 33
  - Work program checklist, 351–353