Assignment 10.1

(1) (a) Down Payment = (280,000)(.2)
= $56,000

(b) Mortgage Loan Amount = 280,000 − 56,000
= $224,000

(2) (a) Down Payment = (242,500)(.3)
= $72,750

(b) Mortgage Loan Amount = 242,500 − 72,750
= $169,750

(3) (a) Down Payment = (187,000)(.2) = $37,400

(b) Mortgage Loan Amount = (187,000 − 37,400)
= $149,600

(4) (a) Down Payment = (262,500)(.25) = $65,625

(b) Mortgage Loan Amount = (262,500 − 65,625)
= $196,875

(5) (a) Down Payment = (398,800)(.25) = $99,700

(b) Mortgage Loan Amount = (398,800 − 99,700)
= $299,100

(6) (a) Down Payment = (856,000)(.4) = $342,400

(b) Mortgage Loan Amount = (856,000 - 342,400)

= $513,600

(7) (a) Down Payment = (177,400)(.2) = $35,480

(b) Mortgage Loan Amount = (177,400 - 35,480)

= $141,920

(8) (a) Down Payment = (280,000)(.4) = $112,000

(b) Mortgage Loan Amount = 280,000 - 112,000

= $168,000

(9) Down Payment = (186,500)(.2) = $37,300

Mortgage Loan Amount = 186,500 - 37,300

= $149,200

(10) Down Payment = (278,800)(.3) = $83,640

Mortgage Loan Amount = 278,800 - 83,640

= $195,160

(11) The down payment is generally between 10% to 40% of the selling price. Lenders require a downpayment because it demonstrates that you are financially responsible due to having saved money.

(12) Down Payment = Selling Price × Down Payment %

$$\frac{14{,}000}{.2} = \frac{x\,(.2)}{.2}$$

$$x = \$70{,}000$$

(16) Sale Price = Original Price • (100% − % OFF)

$$3{,}150 = x \cdot (100\% - 25\%)$$

$$\frac{3{,}150}{.75} = \frac{x\,(.75)}{.75}$$

$$x = \$4{,}200$$