

Profit and Loss/Determining Sales Price to Get Seller's "Net"

1. Profit and Loss Math:

- A. When a problem gives "original value" and asks for "present value," you multiply the percentage.
- B. When a problem gives you "present value" and asks for "original value," you divide by the percentage.
- C. If a profit occurs (+) or if a loss occurs (-), treat the value as given in the problem as 100%.

Examples:

- A. A house sold for \$80,000 at a 14% profit. What was the original value? 100% + 14% = 114% = 1.14 \$80,000 ÷ 1.14 = \$70,175.44 Original Value
- B. A house sold for \$96,600 at a loss of 8%. What was the original value? 100% 8% = 92% = .92 \$96,600.00 ÷ .92 = \$105,000.00 Original Value
- C. A house cost \$80,000 four years ago and recently sold at a 9% profit. What was the sale price (present value)?

```
100% + 9% = 109% = 1.09
$80,000 x 1.09 = $87,200 Present Value
```

D. A house cost \$70,000 four years ago and recently sold at a 9% loss. What was sales price (present value)?

```
100% - 9% = 91% = .91
$70,000 x .91 = $63,700 Present Value
```

- 2. Determining minimum sales price to get seller's "net": Many times in setting a listing price, the seller will want to know the minimum sales price in order to "net" them a certain amount after paying commissions and other closing costs.
 - A. Parts of the problem: (I) Seller's Net, (2) Closing costs to be paid by the seller, (3) The rate of commission

B. **Example:** Owner wants to "net" \$80,000 after paying a 7% commission and paying other closing costs of \$300. What must the property sell for?

Step 3:
$$$80,300 \div .93 = $86,344.09$$
 Sales price

NOTE: Check your answer:

```
$86,344.09 \times .07 = $6,044.09 \text{ commission.} $86,344.09 - $6,044.09 - $300 = $80.000 \text{ Net}
```

3. To calculate Gross Profit: Gross Profit is the difference between the original purchase price and subsequent selling price, not taking into consideration buying costs and selling expense.

Example: You purchased a home for \$65,000 and subsequently sold it for \$100,000. Gross profit is \$100,000 - \$65,000 = \$35,000.

4. To calculate percent of Gross Profit: Divide the amount of gross profit by the original value (purchase price).

Example: Using same figures above: \$35,000 Gross Profit divided by \$65,000.00 Original value = .538 or 53.8% Gross Profit.

5. To calculate Net Profit: Net Profit is the difference between the original purchase price plus buying closing costs and subsequent sales price less selling expenses.

Example: You purchased a home for \$65,000 and paid \$1,500 in closing costs. You subsequently sold the home for \$100,000 and paid \$6,500 in a commission and other selling costs. What was your net profit?

6. To Calculate Percentage of Net Profit: Divide the amount of net profit by the adjusted purchase price (original value).

Example: Using same figures above:

 $27,000 \div 66,500 = .406 = 41\%$ net profit

CAUTION: Read this type of problem very carefully. A problem may give all data needed to compute net profit, but may ask for gross profit.

7. P

Practice Problems								
A.	. An individual needs to net \$60,000 after a sale. If the costs incurred in selling the house include a 6% commission and other expenses total \$1,100, what must the house sell for?							
	(a) \$64,766	(b)\$64,693.44	(c)\$65	5,000	(d)\$65	,633.25		
В.	A builder sells a new home for \$65,000, netting an 11% profit after deducting the broker's 6.5% commission. What did the house cost to build (to the nearest dollar)?							
	(a)\$54,752	(b)\$40,468	(c)\$62,365	(d)\$ ⁴	44,572			
C.	C. Mrs. Smith bought a house for \$45,250 and made improvements on the home totaling \$3,200. What percent profit did she make upon selling the house for \$53,180?							
	(a) 25.9%	(b) 0.8%	(c) 15%	(d) 9	0.76%			
D. Baker sold his home for \$96,350. If his rate of profit was 13%, what was his original cost?								
	(a) \$83,235	(b) \$83,750	(c) \$85,000	(d) \$	85,265.4	9		
E.	E. Jim Brown bought a home for \$60,250 and later sold it for \$55,000. What was his percentage of loss?							
	(a) 8.7%	(b) 9.5%	(c) 9.1%	(d) 1	0%			
F.	F. A seller insists upon receiving \$92,300 net for his property, but agrees to pay the broker 6.5% commission. What sales price must be asked to accomplish this?							
	(a) \$98,299.50	(b) \$98,716.5	58	(c) \$96,842	2	(d) \$97,765		

Solutions to Profit And Loss Math:

- A. \$60,000 Net + \$1,100 Closing Costs = \$61,100 I00% 6% Commission = 94% = .94 \$61,100 ÷ .94 = \$65,000 Sales Price (c)
- B. \$65,000 ÷ 1.11 (100% + 11 %) = \$58,558.56 \$58,558.56 x .935 (100% - 6.5%) = \$54,752 (a)
- C. \$45,250 + \$3,200 = \$48,450 Adjusted Cost \$53,180 - \$48,450 = \$4,730 Profit ÷ \$48,450 = .0976 = 9.76% (d)
- D. 100% +13% = 113% = 1.13 $$96,350.00 \div 1.13 = $85,265.49 (d)$
- E. \$60,250 \$55,000 = \$5,250 Loss \$5,250 ÷ \$60,250 = .087 = 8.7% Loss (a)
- F. 100% 6.5% = 93.5% = .935 \$92,300 ÷ .935 = \$98,716.58 Sales Price (b)