BUS-123 Fall 2025 Instr: F. Paiano

## Real Estate and Leverage No Calculations on the Final Exam

Name: ANSWER KEY Chapter 17 Worksheet

The first two problems are taken directly from one of our previous BUS-121, Principles of Money Management, textbooks. It was written in late 2004 / early 2005 while the real estate mania was raging. The last problem was conveniently omitted from the book. I took the opportunity to number it appropriately.

1. Calculating the Return on Investment without using Financial Leverage. Dave bought a rental property for \$200,000 cash. One year later, he sold it for \$240,000. What was the return on his \$200,000 investment?

\$240,000 selling price - \$200,000 initial price \$40,000 dollar return

\$40,000 dollar return \$200,000 initial investment = 0.20 or 20% return

It costs us \$200,000 to make \$40,000.

2. Calculating the Return on Investment using Financial Leverage. Suppose Dave invested only \$20,000 of his own money and borrowed \$180,000 (90% financing). What was his return on investment?

\$240,000 selling price - \$200,000 initial price \$40,000 dollar return

\$40,000 dollar return \$20,000 initial investment

= 2.00 **or** 200% return!

It only costs us \$20,000 to make \$40,000! What a deal!

Calculating the Return on Investment using Financial Leverage and things do not go as planned. 666. Suppose Dave invested only \$20,000 of his own money and borrowed \$180,000 (90% financing) ... and the property value went down 20%. Now, the question is, "What is he going to tell his wife?"

\$160,000 property is now worth

\$200,000 initial price \$20% drop \$40,000 drop in value

\$200,000 initial price - \$40,000 drop in value

But he still owes \$180,000!

"Honey, we have a problem ..."