

A **balloon mortgage** is a mortgage that is amortized over a period that is longer than the term of the loan, leaving a large final payment due at maturity. The final payment is called a **balloon payment**.

**EXAMPLE 4 Analyzing the Cost of a Balloon Mortgage**

You take out a 10-year balloon mortgage for \$250,000. The monthly payment is equal to that of a 30-year mortgage with an annual percentage rate of 6%. Find the balloon payment and the total interest that you pay.

**SOLUTION**

From Example 1(b), the monthly payment for a 30-year mortgage for \$250,000 with an annual percentage rate of 6% is \$1498.88. Use a spreadsheet to amortize the mortgage for 10 years using this monthly payment.



	A	B	C	D	E
	Payment Number	Balance before Payment	Interest on Balance	Monthly Payment	Balance after Payment
1	1	\$250,000.00	\$1,250.00	\$1,498.88	\$249,751.12
2	2	\$249,751.12	\$1,248.76	\$1,498.88	\$249,501.00
	3	\$249,501.00	\$1,247.51	\$1,498.88	\$249,249.63
	4	\$249,249.63	\$1,246.25	\$1,498.88	\$248,997.00
	5	\$248,997.00	\$1,244.99	\$1,498.88	\$248,743.11
	6	\$248,743.11	\$1,243.72	\$1,498.88	\$248,487.95
	7	\$248,487.95	\$1,242.44	\$1,498.88	\$248,231.51
	8	\$248,231.51	\$1,241.16	\$1,498.88	\$247,973.80
	9	\$247,973.80	\$1,239.87	\$1,498.88	\$247,714.79
	10	\$247,714.79	\$1,238.57	\$1,498.88	\$247,454.49
		\$212,321.49	\$1,061.61	\$1,498.88	\$211,884.22
		\$211,884.22	\$1,059.42	\$1,498.88	\$211,444.77
		\$211,444.77	\$1,057.22	\$1,498.88	\$211,003.12
	117	\$211,003.12	\$1,055.02	\$1,498.88	\$210,559.25
119	118	\$210,559.25	\$1,052.80	\$1,498.88	\$210,113.17
120	119	\$210,113.17	\$1,050.57	\$1,498.88	\$209,664.86
121	120	\$209,664.86	\$1,048.32	\$1,498.88	\$209,214.31
122	<b>Total</b>		<b>\$139,079.47</b>		

Balloon payment

**Study Tip**  
 A balloon mortgage lets you make small monthly payments, but at the end of the mortgage you must make a large final payment.

After making 120 payments, you must make a balloon payment of \$209,214.31. The total interest that you pay over the 10 years is \$139,079.47.

**✓ Checkpoint**

Help at [Math.andYOU.com](http://Math.andYOU.com)

You take out a 5-year balloon mortgage for \$200,000. The monthly payment is equal to that of a 20-year mortgage with an annual percentage rate of 6.5%. Find the balloon payment and the total interest that you pay.