



Compound Interest

Use the Compound Interest Formula to calculate the compound interest word problems:

NOTE: Interest Compounded: Annually, Semi Annually, Quarterly or Monthly

1. If a principal of \$1,482 was invested at a rate of 5% compounded monthly and terminates with a balance of \$1,721.30, how long was the money invested for?
2. If you borrow \$210 at 15% compounded quarterly for 18 years, how much will you pay back by the end of the term?
3. If you received \$5,710.79 on \$9,386 invested at a rate of 4% compounded semiannually, for how long did you invest the principal?
4. You put \$6,576 into an investment at 5% compounded semiannually for nine years. What will the balance be at the end of nine years?
5. How much principal must be invested to earn \$7,683.05 in 15 years at an interest rate of 5% compounded annually?
6. If an investment over eight years at a rate of 12% compounded semiannually results in a final balance of \$5,347.44, what was the original investment?
7. You invested \$2,848 and after eight years the total amount of the investment was \$8,124.17. What was the interest rate if it was compounded annually?
8. If you borrow \$1,310 at 5% compounded quarterly for nine years, how much will you pay back by the end of the term?
9. How much interest is earned on \$550 at 14% compounded semiannually for 10 years?
10. If the balance at the end of 18 years on an investment of \$9,925 that has been invested at a rate of 10% compounded monthly is \$59,596.58, how much was the interest?



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1. If a principal of \$1,482 was invested at a rate of 5% compounded monthly and terminates with a balance of \$1,721.30, how long was the money invested for?
three years
2. If you borrow \$210 at 15% compounded quarterly for 18 years, how much will you pay back by the end of the term?
\$2,974.15
3. If you received \$5,710.79 on \$9,386 invested at a rate of 4% compounded semiannually, for how long did you invest the principal?
12 years
4. You put \$6,576 into an investment at 5% compounded semiannually for nine years. What will the balance be at the end of nine years?
\$10,256.32
5. How much principal must be invested to earn \$7,683.05 in 15 years at an interest rate of 5% compounded annually?
\$7,121
6. If an investment over eight years at a rate of 12% compounded semiannually results in a final balance of \$5,347.44, what was the original investment?
\$2,105
7. You invested \$2,848 and after eight years the total amount of the investment was \$8,124.17. What was the interest rate if it was compounded annually?
14%
8. If you borrow \$1,310 at 5% compounded quarterly for nine years, how much will you pay back by the end of the term?
\$2,048.77
9. How much interest is earned on \$550 at 14% compounded semiannually for 10 years?
\$1,578.33
10. If the balance at the end of 18 years on an investment of \$9,925 that has been invested at a rate of 10% compounded monthly is \$59,596.58, how much was the interest?
\$49,671.58