

Compound Interest

Name: _____ Date: _____ Score: _____ / 18

Quick Review and Helpful Hints

Compound interest earns interest on the interest already earned. For yearly compounding, the amount is $A = P(1 + r)^t$, where P is the principal, r is the rate (as a decimal), and t is the number of years. The interest earned is $A - P$.

▶ **Example:** Find the amount on \$100 at 10% for 2 years (compounded yearly). **Work:** $A = 100(1.10)^2 = 100(1.21)$.

★ **Answer:** \$121



Interest grows on interest.

Practice Problems

Find the amount (or interest, where asked).

- | | |
|---------------------------------|---|
| 1. \$100 at 10%, 1 yr
_____ | 8. \$1000 at 10%, 1 yr
_____ |
| 2. \$100 at 10%, 2 yr
_____ | 9. \$100 at 10%, 2 yr: interest only
_____ |
| 3. \$200 at 10%, 1 yr
_____ | 10. \$200 at 10%, 2 yr
_____ |
| 4. \$100 at 20%, 1 yr
_____ | 11. \$100 at 5%, 1 yr
_____ |
| 5. \$100 at 100%, 1 yr
_____ | 12. \$400 at 25%, 1 yr
_____ |
| 6. \$500 at 10%, 1 yr
_____ | 13. \$100 at 10%, 3 yr
_____ |
| 7. \$100 at 50%, 1 yr
_____ | 14. \$1000 at 100%, 1 yr
_____ |

Word Problems

15. \$1000 grows at 10% for 2 years (yearly). Find the final amount. _____
16. \$100 grows at 10% for 2 years. How much interest is earned? _____
17. \$500 grows at 20% for 1 year. Find the amount. _____
18. \$200 grows at 50% for 1 year. Find the amount. _____



Answer Keys

- | | | |
|----------|-----------|--------------|
| 1. \$110 | 7. \$150 | 13. \$133.10 |
| 2. \$121 | 8. \$1100 | 14. \$2000 |
| 3. \$220 | 9. \$21 | 15. \$1210 |
| 4. \$120 | 10. \$242 | 16. \$21 |
| 5. \$200 | 11. \$105 | 17. \$600 |
| 6. \$550 | 12. \$500 | 18. \$300 |

Step-by-Step Explanations

1. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $100(1.10) = \$110$. So the final answer is \$110.
2. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $100(1.10)^2 = 100(1.21) = \121 . So the final answer is \$121.
3. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $200(1.10) = \$220$. So the final answer is \$220.
4. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $100(1.20) = \$120$. So the final answer is \$120.
5. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $100(2.00) = \$200$. So the final answer is \$200.
6. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $500(1.10) = \$550$. So the final answer is \$550.
7. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $100(1.50) = \$150$. So the final answer is \$150.
8. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $1000(1.10) = \$1100$. So the final answer is \$1100.
9. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $121 - 100 = \$21$. So the final answer is \$21.
10. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $200(1.21) = \$242$. So the final answer is \$242.
11. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $100(1.05) = \$105$. So the final answer is \$105.
12. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $400(1.25) = \$500$. So the final answer is \$500.
13. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $100(1.10)^3 = 100(1.331) = \133.10 . So the final answer is \$133.10.
14. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $1000(2.00) = \$2000$. So the final answer is \$2000.
15. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $1000(1.10)^2 = 1000(1.21) = \1210 . So the final answer is \$1210.
16. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $121 - 100 = \$21$. So the final answer is \$21.
17. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $500(1.20) = \$600$. So the final answer is \$600.
18. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $200(1.50) = \$300$. So the final answer is \$300.



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