Growth and decay

Name _____ Date _____

1. $5000 is invested at 50% interest, compounded once a year. How many dollars is it worth after 2 years? Answer: _____

2. A town of 300 people doubles in size every 5 years. How many people live there after 15 years? Answer: _____

3. $2000 is invested at 10% interest, compounded once a year. How many dollars is it worth after 2 years? Answer: _____

4. A sample of 160 grams has a half-life of 6 days: every 6 days, half of it is left. How many grams are left after 18 days? Answer: _____

5. $1000 is invested at 50% interest, compounded once a year. How many dollars is it worth after 3 years? Answer: _____

6. $5000 is invested at 10% interest, compounded once a year. How many dollars is it worth after 3 years? Answer: _____

7. A sample of 200 grams has a half-life of 3 days: every 3 days, half of it is left. How many grams are left after 6 days? Answer: _____

8. A sample of 80 grams has a half-life of 3 days: every 3 days, half of it is left. How many grams are left after 9 days? Answer: _____

9. A sample of 40 grams has a half-life of 10 days: every 10 days, half of it is left. How many grams are left after 20 days? Answer: _____

10. A sample of 40 grams has a half-life of 5 days: every 5 days, half of it is left. How many grams are left after 10 days? Answer: _____

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11. A town of 250 people doubles in size every 4 years. How many people live there after 12 years? Answer: _____

12. A sample of 80 grams has a half-life of 8 days: every 8 days, half of it is left. How many grams are left after 24 days? Answer: _____

13. $5000 is invested at 20% interest, compounded once a year. How many dollars is it worth after 3 years? Answer: _____

14. $500 is invested at 50% interest, compounded once a year. How many dollars is it worth after 3 years? Answer: _____

15. A town of 150 people doubles in size every 6 years. How many people live there after 12 years? Answer: _____

16. $1000 is invested at 20% interest, compounded once a year. How many dollars is it worth after 3 years? Answer: _____

17. A town of 200 people doubles in size every 6 years. How many people live there after 12 years? Answer: _____

18. A sample of 480 grams has a half-life of 8 days: every 8 days, half of it is left. How many grams are left after 32 days? Answer: _____

19. $2000 is invested at 50% interest, compounded once a year. How many dollars is it worth after 2 years? Answer: _____

20. A town of 300 people doubles in size every 4 years. How many people live there after 12 years? Answer: _____