|  |  | Annually $=$ <br> $A=P\left(1+\frac{r}{n}\right.$ |
| :--- | :--- | :--- |
| Monthly $=$ |  |  |
| Weekly $=$ |  |  |
| Semiannually $=$ |  |  |
| Quarterly $=$ |  |  |
| Daily $=$ |  |  |

## Examples:

1) You deposit $\$ 5000$ in an account that yields $3.6 \%$ annual interest. Find the balance after 2 years if the interest is compounded with the given frequencies:
a) Semiannually:
b) Quarterly:
2) You were charged $8.8 \%$ compounded monthly on your credit card balance of $\$ 2500$. If you did not make any payments on the card, how much would you owe in total after 1 year?
3) You put $\$ 1$ into an account that yields $5 \%$ compounded daily. How much money will you have after 1 year?
4) How long will it take for $\$ 500$ to double if the interest rate is $3.5 \%$ and it's compounded monthly?
5) How long will it take for $\$ 1500$ to grow into $\$ 4000$ if it compounds quarterly at $5.7 \%$ ?
