



11) There are $1,750,235$ acres of forest in northwestern Idaho. One-half percent of the forest is destroyed by pollution every year. How many acres are left after 65 years?
$a=1,750,235$

$$
\begin{aligned}
& r=0.5 \%=0.005 \\
& x=65
\end{aligned}
$$

12) A new Ipod is estimated to lose $25 \%$ of its value every six months after purchase. How much is the value of an Ipod that costs $\$ 299$ after someone has owned it for 2 years? De coy

$$
\begin{aligned}
& a=299 \\
& r=25 \%=0.25 / 6 \text { norths } \\
& x=4(2 \text { yrs }=4 \text { time intervals })
\end{aligned} \quad y=299(1-0.25)^{4} \approx
$$

13) A recent college graduate accepts a job at Google Inc. The job has a salary of $\$ 47,000$ and is guaranteed an annual pay increase of $3 \%$. What is the person's salary at the beginning of their $10^{\text {th }}$ year of work?

$$
\begin{aligned}
& 9=47,000 \\
& c=3 \%=0.03 \\
& x=10
\end{aligned}
$$

