

#1.	Interest Rate per Period	Number of periods	Interest Paid	Total Amount in Account
(a)	$6\% \div 2 = 3\%$	$2 \cdot 2 = 4$	\$125.51	$1000(1.03)^4 \approx \$1125.51$
(b)	$8\% \div 4 = 2\%$	$4 \cdot 3 = 12$	\$268.24	$1000(1.02)^{12} \approx \1268.24
(c)	$10\% \div 12 = \frac{5}{6}\%$	$5 \cdot 12 = 60$	\$645.31	$1000(1\frac{5}{600})^{60} \approx \1645.31
(d)	$12\% \div 365 = \frac{12}{365}\%$	$4 \cdot 365 = 1460$	\$615.95	$1000(1\frac{12}{36500})^{1460} \approx \1615.95

#2. $42000(0.0875)$

$$\begin{array}{r} 875 \\ \times 4.2 \\ \hline 1750 \\ 35000 \\ \hline 36750 \end{array}$$

Ms. Jackson would owe \$3675 in interest.

#5. $320,000(1\frac{1}{2})(0.135)$

$$= \frac{320,000}{1} \cdot \frac{3}{2} (0.135)$$

$$= 480,000(0.135)$$

$$= 64,800$$

$$\begin{array}{r} 135 \\ \times 480 \\ \hline 10800 \\ 54000 \\ \hline 64800 \end{array}$$

The company would pay \$64,800 in interest.

#9. $1.35(1.11)^6 \approx 2.52506$

The price of the hamburger would be approximately \$2.53.