

## Advantages of Credit Cards

- 1. Convenient and simple
- 2. Delay payments until a certain date
- 3. Record of purchases is made
- 4. Lower danger of losing cash
- 5. Easy to order online, by phone, or mail
- 6. Better services if you become a valued customer
- 7. Help take advantage of sales
- 8. Cash advance


## Disadvantages of Credit Cards

- 1. Overspending
- 2. Forget purchases until end of month
- 3. Unauthorized purchases (credit card number, name)
- 4. Stolen - notify credit card company ASAP. You may be liable for unauthorized charges.
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"I'm afriad I'll have to validate your card with my supervisor... I won't keep you a moment, Mrs Camilla Gilbertson Boothby... the Third."

## Skill 1

- Common logarithm function
$-y=\log _{10} x$
- "y represents the exponent to which the number ten must be raised to obtain $x$ "
$-\log _{10} 100=?$
-2 since $10^{2}$ is 100


## Time- to - Pay- off - Formula



Where $P=$ amount of loan

$$
\begin{aligned}
r & =\text { interest rate } \\
M & =\text { monthly payment } \\
n & =\text { number of payment periods }
\end{aligned}
$$

## Example 1

- Snooki has a balance of $\$ 3200$ on her MasterCard. That has an APR of $18 \%$. She can afford monthly payments of $\$ 120$.
- If she makes no other purchases, how long will it take her to pay off the balance?


## Example 2

- Snooki just booked season 2 of Snooki \& Jwoww so she can afford to make monthly payments of $\$ 250$ instead of $\$ 120$.
- How long will it take her to pay of her bill if she makes monthly payments of $\$ 250$ instead of $\$ 120$ ?
- When would you want to pay off a credit card balance before a certain event?



## Skill 2

- Monthly Payment Formula for Paying Off Balance

$$
\frac{P \frac{r}{12}\left(1+\frac{r}{12}\right)^{n}}{\left(1+\frac{r}{12}\right)^{n}-1}
$$

- Alex is graduating from the Naval Academy in 3 years. He would like to pay off his credit card bills before he has to start paying off students loans.
- His current balance is $\$ 3300$ and his card carries an APR of $24 \%$, how large will his monthly payment be if the balance is to be paid off in 3 years?
- Kara is starting nursing school in 2 years. She wants to pay off her credit card balance before she has to start buying scrubs and stethoscopes.
- Her current balance is $\$ 1616$ and her card carries an APR of $20 \%$, how large will her monthly payment be if the balance is to be paid off in 2 years?
- If you determine that it will take 7.2 months to pay off a credit balance, why would you round your answer to 8 months instead of 7 months?
- Why is paying off a credit card similar to making payments on an installment bank loan?
- HOMEWORK:
pg 257 TYS 5-8, EYS 8 - 18 even

