# Credit Card Balances: How long do they last?

6-2

INC. AND PENNET

## **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."

PJK.

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# Skill 1

- Common logarithm function
  - $-y = \log_{10} x$

 "y represents the exponent to which the number ten must be raised to obtain x"

 $- \log_{10} 100 = ?$ 

 $-2 \text{ since } 10^2 \text{ is } 100$ 



#### Where P = amount of loan r = interest rate M = monthly payment

**n** = number of payment periods

### 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



- 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