# THURSDAY, SEPTEMBER 20, 2012

TISK Problems

1) Solve: $3z - 1 = 5$

2) Write and solve an equation:
   Sanjana has four fewer than five times the number of bows as Chanti.  If Sanjana has 16 bows, how many does Chanti have?

3) Evaluate: -6.2(7)

We will have 3 Mental Math questions today.

Homework: Problem Solving Write Up

# Homework Check

21) 150

22) 75%

23) 250 (240 is better)

24) 250 (225 is also good)

25) 1600

26) 50%

27) 33%

28) 9

29) 400

30) 50%

# §8-6 Applications of Percents

- Percents have many real-world applications
  - One of these are:
    - Commission Rates
      - Commission is the amount of money a salesperson makes when they sell something.
      - This amount is taken from the *profit* the company made.
        - For example, a salesman might make a 20% commission.
        - That means if he made a sale for $3,000, the salesman would make $600.

# §8-6 Applications of Percents

- Percents have many real-world applications
  - Another one is:
    - Taxes
      - One type of tax is *sales* tax.
        - Sales tax is an amount you are charged in addition to the price of the items you are buying.
          - For example, in Chandler, the total sales tax is currently 8.8%.
          - So if you bought $30 worth of items in Chandler, you'd expect to pay about $33 total with tax. (Or $32.64 total.)
      - Another type of tax is called *withholding* tax.
        - Withholding tax is the amount the government holds from your paycheck.
          - For example, a single person can expect to pay about 17% in federal taxes per paycheck.

# §8-6 Applications of Percents

- You have been hired to sell cars at Wiltjer's Crazy Car Lot.

- You can choose between 3 salary packages:
  - $2,500 per month with **<u>no</u>** commission
  - $1,000 per month with 2% commission
  - No monthly salary and 4% commission

- An average car on Wiltjer's Crazy Car Lot sells for $20,000.

- Which package will you choose? Why?

# Homework

- Finish your Problem-Solving Write Up for the Potato Problem.