

BE-1A | WEDNESDAY 3-28-07

THE POPULATION IN Blount
County was 56,436 in 2006.
This was 864 more than the population
in 2005. SET-UP THE EQUATION for
the percent change from 2005 to 2006.

$$\% \uparrow, \text{ percent change} = \frac{\text{change}}{\text{original}}$$



MEMORY
AID

% looks like %

$$\therefore \frac{864}{56436 - 864} \cdot 100$$

$$= \frac{864}{55572} \cdot 100 = 0.015547$$
$$\approx \boxed{1.6\% \uparrow}$$

CALCULATORS ISSUE / DEMO

Blount County Population
Article → OTHER COUNTIES

SALES TAX: concert ticket is \$45
sales tax is 6.25%
Final cost?

$6.25\% = .0625$ Move decimal left 2 places

↑ ↑
6.25
•625
•0625

So tax is $(45)(.0625) = 2.8125$
 $= 2.81$

↑
ROUND TO
NEAREST penny
= hundredths

∴ Final cost is 45.00
+ 2.81

$\boxed{\$47.81}$

Discount: Sweater on sale, 35% off
Original Price is 38.
Final cost?

$$35\% = \frac{35.00}{100} = .35$$

$$\therefore \text{Discount is } (.35)(38) = 13.3$$

$$= 13.30$$

$$\therefore \text{Final cost is } 38.00$$

$$- 13.30$$

$$\boxed{\$24.70}$$

Ex 4 pg 161

IF YOU HAVE A DISCOUNT AND A SALES TAX, YOU MUST FIRST FIND THE discount price, then TAX this Amount.

DO NOT TAX THE "ASKING" price, ONLY THE "FINAL" price gets taxed.

Homework: Pg. 162 - 163

20, 22, 23,

31, 32, 37, 38, 43