6 - 4
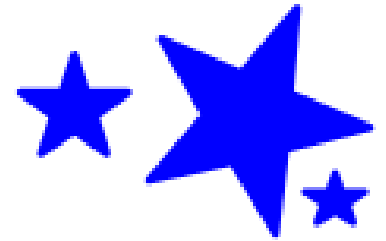# Solve Problems Using Tax Rates
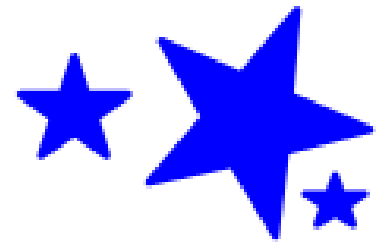
Yesterday, discounts
meant less (subtract).

Today, tax rates
mean more (add).

Ex: A pair of shoes is $35.98. The sales tax is 6%. Find the amount of the sales tax and total cost of the shoes.

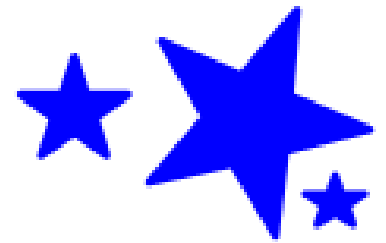$$.06 \times 35.98 = 2.1588 \quad (\$2.16)$$

$$35.98 + 2.16 = (\$38.14)$$

income taxes: employees pay taxes based on their income

net pay: amount you get to keep

Ex: Taylor earns $950 every two weeks. She pays 25% in income taxes. Calculate the amount of income tax she pays and her net pay.
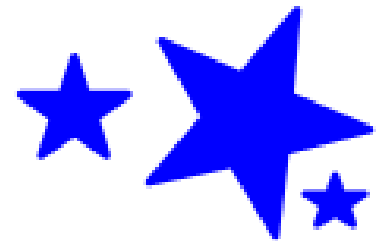
$$.25 \times 950 = (\$237.50)$$

$$950 - 237.50 = (\$712.50)$$

Ex: The Smith's home is valued at $93,000. The property tax rate for their home is about 3%. Estimate how much the Smith's will pay in property tax.

$$.03 \times 93,000 = \boxed{\$2,790}$$

Ex: Brittany purchases a pair of jeans for $29.99. The total amount of the purchase is $31.79. Find the sales tax rate (%)
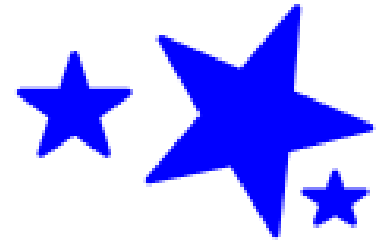
$$tax\% = \frac{difference}{original}$$

$$31.79 - 29.99 = 1.80$$

$$\frac{1.80}{29.99} = .06 \quad \boxed{6\%}$$

Homework:

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