1\$ off

Math 7 Notes **Discount, Tax and Markup** (Lesson 2-6 & 2-7)

discount is the amount by which the regular price is reduced. It is always calculated with the regular price as "the whole".

When you subtract the discount from the regular price, you get the sale price.

25% off means you pay 75%, 20 € Regular Price Discount Sale Price <u>25%</u> 75%

A store sells items for more than they paid for those items. The amount of increase is called the markup. The percent of markup is a percent of increase. The selling price is the amount the customer pays reo price for the item.

Page 1

A store buys an item for \$24. It marks it up 65% before selling it to the customer. What is the selling price of the item?

Method 1 Use the percent given i

Method 2 Add or Subtract the percent given in the word problem to 100%

If the markup is 65%, then the selling Amount of Markup Cost for the store $\frac{65}{100} = \frac{65}{24}$ If the markup is 65%, then the sening price is $\frac{165}{165}$ % of the price of the

$$65(24) \div 100$$

$$0 = 15.6$$

$$15.60_{\text{markup}}$$

$$165(24) \div 100 = \frac{1}{24}$$

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$$165(24) \div 100 = \frac{1}{24}$$

$$39.60$$

$$39.60$$

$$39.60$$

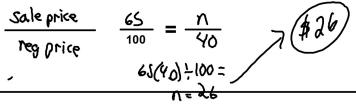
$$39.60$$

A \$40 necklace is on sale for 35% off. Find the sale price.

Method 1 Use the percent given in the word problem.

Dollars off Dollars off
Regular Price of Necklace 35(40) + 100 = n= 148ff

Method 2 Add or subtract the percent given in the word problem to 100% If the necklace is discounted 35%, then the sale price is 65 % of the regular price.



Page 2

The Easton family bought a car for \$22,500. They must pay 6% sales tax. What is the total price of the car including tax?

Method 1 Use the percent given

Method 2 Add or Subtract the percent given in the word problem to 100%

If they must pay 6% tax, then the total price (including tax) is 106 % of the price of the car.

Defind tax# 6(22500) + 100 $\frac{(05) + 100}{(05) + 100} = \frac{106}{22500} = \frac{100}{22500} = \frac{100}{100} = \frac$

A bike regularly sells for \$340. It is on sale for 40% off the regular price. The sales tax is 6.35%. Find the cost of the item.

Step?

Find sale price

Sale price + +ax

If 40% we pay 60% sale price $100 = \frac{\Lambda}{340}$ Sale price

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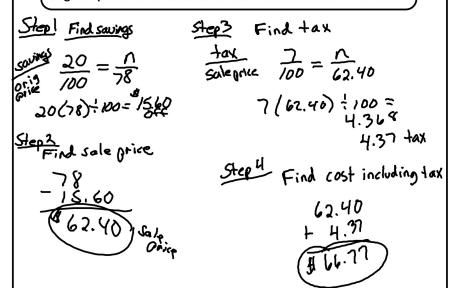
An item is on sale for 30% off. The sale price of the item is \$56. Find the regular price of the item.

Method 1: Use the percent given

Method 2: Add or subtract the percent given in the word problem.

salare
$$\frac{70}{100} = \frac{56}{100}$$

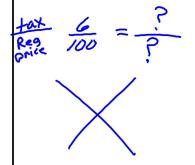
An item regularly sells for \$78. It is on sale for 20% off the regular price. The sales tax is 7%. Find the cost of the item.



Page 6

Sara pays \$58 for an item that includes a 6% sales tax. Find the regular price of the item.

Method 1: Use the percent given



Method 2: Add or subtract the percent given in the word problem.

100 (58) ÷ 106 = 58 100 (58) ÷ 106 = 54.7169...