Name: _____

Markup, Discount, and Tax Word Problems

BLAKE'S BODY SHOP

1.) At Blake's Body Shop, the normal price of an oil change is $89.00. If Sean has a coupon for 22% off an oil change, how much will he be charged before taxes are applied (to the nearest cent)?

2.) It costs Blake a total of $17.12 for a quart of motor oil. If sells quarts of motor oil to customers at a 65.3% how much does he charge (to the nearest cent)?

3.) At Blake's Body shop, the cost of a realignment is $1,762 and the cost of an emissions test is $240. If the sales tax rate is 8.6%, what would be the total cost, including tax, for both a realignment and an emissions test (to the nearest cent)?

4.) Blake purchased a vintage sports car for $4,875. After making repairs to the engine, Blake sold the car at a 150% markup. How much of a profit did he make after selling the car (to the nearest cent)?

5.) Jeb takes his car into Blake's Body Shop for repairs. He needs an oil change for $89, new windshield wipers for $34, new tires for $786, and new brake pads for $439. If Blake gives Jeb a 33.5% discount before taxes, and the tax rate is 6.4%, what will be the total cost, including tax, of Jeb's repairs (to the nearest cent)?

ANSWER KEY

    1.) **$69.42**

    2.) **$28.30**

    3.) **$2,174.17**

    4.) Cost: 4,875

       Sold: 7,312.50

       Profit: 7,312.50 – 4,875 = **$2,437.50**

    5.) Normal Price: 89 + 34 + 786 + 439 = $1,348

       After 33.5% Discount: $896.42

       Tax: $896.42 x 0.064 = $57.37

       Total Cost: 896.42 + 57.37 = **$953.79**