

Math 8-1

Project #5

Ms. Dowson

Name: _____
November 2014

Due: **Tuesday November 18, 2014**

Spot Check: Last day, **Monday November 17, 2014**

1. Sarah is buying a new car. The original cost is \$17,000. If the tax is 4.5% what is the total cost of the car including tax?
2. An iPod regularly priced at \$309.99 is on sale for \$289.99. What percent discount was used to set the sale price? Round your answer to the nearest whole percent.
3. A car was on sale for \$18,800. This sale price was 20% off the original cost of the car. What was the original cost of the car?
4. Zach is in line at the grocery store. He has approximately \$65 worth of food and picnic supplies in his shopping cart. He knows that the sales tax in South Carolina (where he is on vacations) is 4%. He has \$67 in his wallet. Will he have enough money?

5. Plan 9 music store usually sells new CDs for \$16 each. If it has put new CDs on sale this week for \$12.50, what percent discount is this?
6. Tom's new shirt was discounted 15%. It now costs \$22.10. What was the original cost of the new shirt?
7. A 200 gallon tub of fruit punch is 35% apple juice. How many gallons of pure apple juice must be added to produce a fruit punch that is 50% apple juice?
8. Solve.
- a) $3x + 4 + 7x - 10 = 34$
- b) $-2r - 2(2r + 4) = -11$
9. While backpacking in northern Arizona, Abby found a large sum of money. She spent half of the money on a new tent. She spent a fourth of the money on new hiking boots. She spent an eighth of the money on food. After all of her purchases, she still had \$93.75 left over. How much did she find?