Quiz Percents – Level One

(1-2) Multiple Choice. Circle the letter of your answer.

1) Which equation would be used to find 9% of 750?

(A) $(.09)(750) = x$ (B) $(.9)(750) = x$ (C) $(.09)x = 750$ (D) $(.9)x = 750$

2) In order to make a profit on a coat she is going to sell, a storeowner prices the coat 15% higher than her cost. This results in a selling price of $207. If x represents her cost, which equation could be used to find x?

A) $207 = .15x$ B) $207 = .85x$ C) $x = .85(207)$ D) $207 = 1.15x$

3) 140 is what percent of 40?

4) 16% of the people surveyed stated that they dislike their job. If 48 people stated that they dislike their job, how many people were surveyed?

5) A school faculty is 25% male. If there are 60 female faculty members, how many faculty members are there in all?

6) From last year, a population of a town increased from 2500 to 3000. What is the percent increase?

7) After adding 15% tax, the cost of a hotel room is $195.50. What was the cost of the hotel room before the tax was added?

8) Ken bought a shirt during a 40% off sale. The regular price of shirt was $80. Sales tax of 6.5% is then added to the sale price to determine the final cost. What is the final cost of the shirt?

9) The price of a share of stock increased 40%. It then decreased 15%. Resulting in a price of $178.50 per share. What was the price of the stock <u>before</u> the two changes?

10) There are 180 7th-graders in a school. There are 220 8th-graders in the school. 20% of the 7th graders and 40% of the eighth graders are on a modified sports team. What percentage of the combined 7th and 8th grade play modified sports?

11) A woman earns $50,000 per year before paying a percentage of her income in taxes. If after 5 years she has paid a total of $75,000 in taxes, by what rate is her yearly income taxed?

Bonus 1) Max got a 10% raise in salary and now earns $302.50. His payroll department determined that

this was a mistake and that he should have received a 15% increase in salary. What is his correct new salary?

Bonus 2) To pay for her first year of college, Julie got 24% of her tuition given as a scholarship. She paid 70% of the remaining tuition using savings. That left $11,400 which she took out in loans. Find the total tuition.

Bonus 3) A train left a station at 8:00 am and arrived at its destination 300 miles away at 12:00 pm. If it had increased its average rate of speed by 20%, what time would it have arrived?