PreAlgebra Worksheet 2-5B: Finding Score to Meet Needed Average

1) Carla has three test scores of 84, 90, and 86. There is one more test during the semester. She wants to make an A in the class, which means she needs her average to be a 90. All four tests count the same (25% each) in determining the class grade. What grade does she need to make on the fourth test to make an A in the class?

2) Allyson has taken four tests and made 82, 77, 75, and 84. She has to take a final exam and her teacher has told her that the final exam will count as two test grades. Allyson really wants to make a B in the class, which means she needs an overall average of 80. What does Allyson need to make on the final to get a B in the class?

3) Jim has four test scores of 86, 81, 80, and 75. There is one more test during the semester. He wants to make a B in the class, which means he needs his average to be an 80. All five tests count the same in determining the class grade. What grade does Jim need to make on the fifth test to make a B in the class?

4) Janna has taken three tests and made 92, 77, and 95. She has to take a final exam and her teacher has told her that the final exam will count as two test grades. Janna really wants to make an A in the class, which means she needs an overall average of 90. Janna is not sure if it is possible to make an A since she made a 77 on one of her tests. Is it possible? If not, explain why. If it is possible, what grade does she need to make?