

Name: _____

Date: _____ Per: _____

Lesson 7.1.7 Homework

7-80. Joe wanted to know more about how the cost of fertilizer for his lawn-care business was changing. The cost of a bag of fertilizer just increased from \$8 to \$15. What is the percent increase of the price? Represent the change as a fraction, as a percent, and as a decimal.

7-81. Solve each equation. Show all work.

a. $0.85x = 200$

b. $\frac{7}{6}x = 140$

7-82. Ms. Poppy has finished grading her students' tests. The scores were 62, 65, 93, 51, 55, 76, 79, 85, 55, 72, 78, 83, 91, and 82.

a. Find the median.

b. Find the mean.

7-84. Evaluate the inequality below for the following listed values of x . Decide if the value makes the statement true or false. Show your work.

$$3x - 3 \geq 2x + 3$$

a. $x = -3$

b. $x = 9.5$

c. $x = 6$

d. $x = 10\frac{1}{2}$

7-85. Mr. Takaya can eat three slices of pizza in five minutes. If he continues to eat at the same rate, how long will it take him to eat the whole pizza, which has twelve slices? How many slices could he eat in half of an hour?