Name: _____   Date: _____

Section 2.2 Extra Practice

1. For the following addition and subtraction questions,

   i) estimate the sum or difference

   ii) calculate the answer

   a) 0.56 + (−3.14)

   b) −6.92 + (−8.02)

   c) 7.82 − 5.37

   d) −2.75 − (−4.13)

   e) −0.741 + 1.982

   f) 0.594 − (−0.085)

2. For the following multiplication and division questions,

   i) estimate the product or quotient

   ii) calculate the answer. Express your answer to the nearest thousandth, if
   necessary.

   a) −4.2 × 6.5

   b) −5.1 × (−9.3)

   c) −1.68 ÷ (−1.4)

   d) 35.7 ÷ (−4.2)

   e) (2.7)(−4.2)

   f) −8.83 ÷ (−0.33)

   g) −6 ÷ 22

   h) (−0.29)(−0.91)

3. i) Estimate. **ii)** Then, calculate.

   a) −6.2 + (−0.72) ÷ (−1.3 + 0.4)

   b) −2.2 × (−3.2) + (−0.88) × 2.3

   c) −6.2 × (−4.2) − 1.02 ÷ 0.51

For #4 to 7,

a) *write an expression using rational numbers to represent the problem, then calculate*

b) *write a sentence to answer the problem*

4. Camille's chequing account balance is $135.25. She writes a cheque for the amount of $159.15. What is the balance in her account now?

5. On a cold winter Monday in Calgary, the temperature reached a high of –12 °C. On Tuesday, the high went up by 4 °C. On Wednesday, it went down 11 °C. On Thursday, it went up by 9 °C. On Friday, it cooled down by 3 °C. What was the temperature on Friday?

6. As a fundraiser, the student council ordered 130 birthday cards, with a picture of the school's logo. The cards cost the student council $1.45 each. They sold 126 cards for $2.00 each. How much profit did the student council make on their birthday card sale?

7. The hottest day in Canada on record was on July 5, 1937, in Midale and Yellowgrass, Saskatchewan, when the temperature peaked at 45 °C. The coldest day in Canada was in Snag, Yukon, at –63 °C. What is the difference in temperature between the hottest day and coldest day in Canada?

8. For each set of numbers, determine

(i) the range

(ii) the median

(iii) the mean

Show your work. Express your answer to the nearest hundredth, if necessary.

a) 2.5, –8.1, –3.2, 1.8, 0.6, 5.8, –0.5

b) –7.3, 14.2, 9.1, 12.3, –13.7, 0, 4.1