

Name: _____

Date: _____

Mrs. van der Vossen

2.2 Worksheet#2 – Problems involving Rational Numbers **Version 2**

1. For the following questions, show all steps by:

i) determine sign and decimal amount of answer

ii) calculate the answer

a) $-0.57 + 2.14$	b) $-7.92 + (-5.75)$
c) $8.83 - 4.37$	d) $-8.12 - (-3.83)$
e) $-0.441 + 1.328$	f) $3.594 - (-0.187)$

g) $0.771 - 12.147$	h) $-8.222 + (-3.78)$
i) $13.83 - (-14.37)$	j) $-28.12 - (-33.66)$
k) $-0.91 + 1.928$	l) $-23.594 - (-10.17)$
m) $-70.93 + 65.928$	n) $-123.04 - (-99.17)$

2. For the following questions, show all steps by:

i) determine sign and decimal amount of answer

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

a) -3.2×8.5	b) $-7.1 \times (-2.3)$
c) $-3.08 \times (-1.61)$	d) $28.36 \times (-14.3)$
e) $(7.7)(-16.3)$	f) $-4.813 \times (-0.57)$

$$\text{g) } 48.84 \div (-7.4)$$

$$\text{h) } (-0.92)(-0.91)$$

$$\text{i) } -43.2 \times 18.5$$

$$\text{j) } -7.123 \times (-2.3)$$

$$\text{k) } -3.68 \div (-1.6)$$

$$\text{l) } 22.36 \div (-4.3)$$

m) $(-14.868) \div (-3.6)$

n) $(-62.352) \div (-12.99)$

3. Show all your steps. Estimate, then calculate. Hint break into parts!

a) $4.55 + 7.4 - (-0.88) + (-0.4)$

b) $(-4.2) \times 3.2 + 12.3 + (-3.8)$

$$\text{c) } -17.83 + (-6.3) \times (-2.3 + 0.8)$$

$$\text{d) } (-3.7) \times 6.1 + (-4.8) \times (-0.5)$$