

## Chapter 2 Homework Sheet

### NO CALCULATORS!

Copy the problems onto your own sheet of notebook paper. Follow the directions from the notes. No decimal answers unless the problem has decimals.

TEST ON WEDNESDAY, SEPTEMBER 19<sup>th</sup>

**Friday, Aug. 31:** 2-1 p. 75 #16-38 Even (You must use the number lines provided.)

**Wednesday, Sept. 5:** 2-3 p. 90 #26-54 Even (State your thought process- Add, Subtr, Add ID Prop., Add Inv Prop. Show Subtr. Rule)

### Thursday, Sept. 6: Review of Chapter 2(1,3)

Use a **number line** to simplify. [2-1]

1)  $(-4) + (-3)$     2)  $6 - 8$     3)  $(-1) + 6$     4)  $5 - (-2)$

Simplify. State your thought process (either Add, Subtr, Add Inv. Prop or Add ID Prop.) [2-3]

5)  $15 + (-3)$     6)  $(-17) + 23$     7)  $(-9) - (-9)$     8)  $12 + (-18)$   
 9)  $0 - 7$     10)  $3 + (-11) + 7$     11)  $6x + (-2x)$     12)  $17x - 20x$

Evaluate if  $m = -1$ ,  $w = 2$ ,  $x = 8$ ,  $y = -5$ . State your thought process (see above) [2-3]

13)  $|x + m|$     14)  $-|w - y|$     15)  $|m + y|$     16)  $|m| - |x|$

State the property illustrated. [1(6-8), 2-3]

17)  $5 - 6 = 5 + (-6)$     18)  $11 + 0 = 11$     19)  $5 + 6 = 6 + 5$   
 20)  $13 - 15 = 13 - 15$     21)  $(9 + 3) + 1 = 9 + (3 + 1)$     22)  $3 + (-3) = 0$

### Friday, Sept. 7: 2-4

State the set(s) each number belongs to: Whole (W), Rational (Q), Integer (Z), Natural (N), Irrational (I)

23)  $\sqrt{35}$     24)  $\frac{3}{4}$     25)  $-15$     26)  $5.35$     27)  $4$

Replace ? with  $<$ ,  $>$ , or  $=$  to make the sentence true. You must use the Comparison Prop. for Rational #'s.

28)  $-17$  ?  $-23$     29)  $\frac{1}{2}$  ?  $\frac{3}{4}$     30)  $\frac{8}{5}$  ?  $\frac{9}{4}$     31)  $-\frac{3}{7}$  ?  $-\frac{3}{14}$

Write the number in each set in order from least to greatest.

32)  $\left\{-\frac{4}{5}, -\frac{6}{7}, -\frac{1}{2}\right\}$     33)  $\left\{\frac{4}{5}, \frac{9}{10}, 0.7\right\}$     34)  $\left\{0.25, \frac{7}{8}, \frac{3}{8}\right\}$

Find a number between the given numbers.

35)  $\frac{4}{7}$  and  $\frac{1}{3}$     36)  $\frac{3}{10}$  and  $\frac{4}{5}$     37)  $\frac{19}{30}$  and  $\frac{31}{45}$

### Monday, September 10: 2-5

Find each sum or difference. State your thought process (Add, Subtr, etc) Show that you are using the subtraction rule.

38)  $\left(\frac{-8}{11}\right) - \frac{4}{11}$     39)  $\frac{3}{4} + \left(\frac{-1}{4}\right)$     40)  $\frac{7}{8} - \left(\frac{-1}{2}\right)$     41)  $\left(\frac{-5}{6}\right) - \left(\frac{-5}{8}\right)$   
 42)  $\left(\frac{-3}{8}\right) + \frac{7}{12}$     43)  $\left(\frac{-5}{16}\right) + \left(\frac{-5}{8}\right)$     44)  $\frac{7}{9} + \left(\frac{-5}{12}\right)$     45)  $\frac{3}{14} + \frac{1}{3}$   
 46)  $(-38.9) + 14.3$     47)  $32.4 - (-91.3) + (-100.8)$     48)  $16.24 + (-8.7)$

Evaluate each expression. State your thought process (Add, Subtr, etc) Show that you are using the subtraction rule.

49)  $-\frac{3}{7} + x$ , if  $x = \frac{1}{4}$     50)  $\frac{5}{3} - x$ , if  $x = \frac{5}{6}$     51)  $x - (-2)$ , if  $x = \frac{2}{3}$

Review Problems:

Simplify. Remember to use the subtraction rule and the order of operations. [1-3, 1-7]

52)  $15 \div 3 \cdot 5 - 4^2$     53)  $(5 - 2)^2 - 24 \div 2 \cdot 3$     54)  $7 + 3(6x - 11)$   
 55)  $9(11x - 2) - 5$     56)  $7x + 3x - 15x + 2x$     57)  $8 + 3x - 4y + 7 + 5y + x$

## Tuesday, Sept. 11: 2-6

Simplify. State thought process- Same, Diff., Mult Prop. (0), Mult Prop (-1), Mult. ID Prop, Mult Inv Prop.

58) $(-6)(10)$	59) $3(-8)$	60) $25 \cdot 1$	61) $8 \cdot 3$
62) $(-12)(-2x)$	63) $4 \cdot (-11)$	64) $13(-7)$	65) $(20x)(4)$
66) $8 \cdot (-1)$	67) $(-5)(0)$	68) $4 \cdot \frac{1}{4}$	69) $(-18)(\frac{3}{4})$
70) $(-\frac{1}{3})(-\frac{3}{8})$	71) $4\frac{7}{8} \cdot 6\frac{2}{3}$	72) $10 \cdot (-2.3)$	73) $(-0.2)(-8)$
74) $4 \cdot (-3) \cdot 7$	75) $(-10)(-3)(-2)$	76) $4 \cdot (-1) \cdot 8 \cdot 0$	77) $(-3)(5)(11)(-2)$
Evaluate if $w = -2$ , $x = \frac{1}{4}$ , $y = -8$			
78) $wx + y$	79) $ xy  - w$	80) $y^2 - 3w$	81) $(-7w) - 12x$

## Wednesday, Sept. 12: Review of Chapter 2(4-6)

State the set(s) each number belongs to: Whole (W), Rational (Q), Integer (Z), Natural (N), Irrational (I) [2-4]

82) $\sqrt{16}$	83) 4.365	84) $-\frac{1}{3}$	85) 0	86) -18	87) $\sqrt{51}$
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Replace ? with  $<$ ,  $>$ , or  $=$  to make the sentence true. You must use the Comparison Prop. for Rational #'s. [2-4]

88) $\frac{9}{15} \underline{\quad} \frac{3}{5}$	89) $-0.0004 \underline{\quad} -0.004$	90) $\frac{-2}{3} \underline{\quad} \frac{-5}{9}$
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Write the number in each set in order from least to greatest. [2-4]

91) $\{6.7, -\frac{5}{7}, \frac{6}{13}\}$	92) $\{\frac{3}{5}, 0, -\frac{2}{3}, 0.5\}$
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Find a number between the given numbers. [2-4]

93) $-\frac{2}{3}$ and $-\frac{5}{12}$	94) $\frac{5}{7}$ and $\frac{3}{8}$
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Find each sum or difference. [2-5] State your thought process (either Add or Subtr) No decimal answers unless there are decimals in the problem.

95) $\frac{2}{5} - \frac{3}{4}$	96) $\frac{5}{4} + (\frac{-1}{6})$	97) $(-6.23) - (-1.01)$	98) $84.31 - 97.5$
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Simplify. State thought process (either Same or Diff.) [2-6]

99) $3 \cdot (-5x)$	100) $(-\frac{1}{2})(18)$	101) $6 \cdot 7 \cdot 2$	102) $(-1)(5)(3)(-2)$
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Simplify.

103) $12 + 3(4x - 9)$	104) $13 - 8(3 - 5x)$	105) $16 + 2(7x - 4) - 20x$
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## Thursday, Sept. 13:

2-7 p. 115 #14-36 Even  
Review p. 123 #40-50 Even

## Friday, Sept. 14: Review of Chapter 2

Use a **number line** to simplify. [2-1]

106) $(-4) + (-3)$	107) $6 - 8$	108) $(-1) + 6$	109) $5 - (-2)$
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Simplify. State your thought process (either Add, Subtr, Add Inv. Prop or Add ID Prop.) [2-3]

110) $5 + (-11)$	111) $(-8) + 11$	112) $12 - 20$	113) $6 - (-9)$
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Replace ? with  $<$ ,  $>$ , or  $=$  to make the sentence true. You must use the Comparison Prop. for Rational #'s. [2-4]

114) $\frac{3}{8} \underline{\quad} \frac{2}{3}$	115) $-\frac{5}{8} \underline{\quad} -\frac{1}{2}$
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Find a number between the given numbers. [2-4]

116) $\frac{3}{4}$ and $\frac{3}{8}$	117) $\frac{1}{3}$ and $\frac{7}{8}$
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Find each sum or difference. State your thought process (either Add or Subtr) No decimal answers unless there are decimals in the problem. [2-5]

118) $\frac{3}{5} + (\frac{-2}{5})$	119) $\frac{1}{6} - \frac{5}{8}$	120) $(-\frac{1}{2}) + (\frac{-7}{14})$	121) $3.1 - (-4.56)$
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Simplify. State thought process (either Same or Diff.) [2-6]

122) $11 \cdot 6$	123) $(5)(-4)$	124) $2x \cdot (-3)$	125) $8 \cdot 0 \cdot 12 \cdot (-11)$
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Simplify. State thought process (either Same or Diff.) Show that you used the division rule. [2-7]

126) $39 \div (-3)$	127) $(-6) \div (-\frac{2}{3})$	128) $\frac{3/8}{24}$	129) $\frac{12x - 6}{3}$
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## TEST on Wednesday, Sept. 19