

## 1.0 Worksheet

Name \_\_\_\_\_

**For #1 – 12: Solve for each variable. Show your work! You may use a calculator.**

1)  $8 = x - 2$

2)  $-7y = -21$

3)  $\frac{a}{8} = 5$

4)  $y - 2.1 = 5.3$

5)  $-8 = x - 11$

6)  $4 = -10 + b$

7)  $-12 = -8h$

8)  $\frac{x}{2} = 5$

9)  $\frac{n}{-3} = -10$

10)  $\frac{1}{5}b = 2$

11)  $-11 = -\frac{5}{2}a$

12)  $6 = b + 6$

**For #13 – 14:** In one week, Harry Styles sold 182,000 vinyl records, which is 68,000 more vinyl records than Taylor Swift sold in her highest performing week.

13) Write an equation to model this situation. Use the variable  $v$  to represent the number of vinyl records that Taylor Swift sold in her highest performing week.

14) Solve the equation you wrote in #13.

**1.0 Self-Reflection:**

A) What level of frustration did you experience while doing this assignment?

0

1

2

3

4

No frustration

A small amount of frustration

Frustrated half the time

Frustrated most the time

Frustrated all of the time

B) How confident were you on each of the following portions of the assignment? Use the scale below.

0

1

2

3

4

Not confident

Slightly confident

Confident half the time

Confident most the time

Confident all of the time

Portion	Confidence Scale Value
Selecting an inverse operation (add, subtract, multiple, or divide)	
Correctly doing the computation to get the correct answer	
Dealing with fractions	
Writing an equation for a word problem (#13)	

C) Answer the questions below.

**Did you use any resources on this assignment to help you be successful?**

**List the resources you used, if any.** Some options can include referencing your notes, using a calculator, asking a friend or family member for help, or finding a video on the internet to help you.

D) Are you proud of your effort on this assignment? Why or why not?

E) List a goal for your next assignment.

## 1.1 Worksheet

Name \_\_\_\_\_

**For #1 – 12: Solve for each variable. Show your work! You may use a calculator.**

1)  $3x - 14 = 4$

2)  $\frac{b}{6} + 1 = 9$

3)  $-17 = 4x + 3$

4)  $4 - x = 13$

5)  $-3 = -\frac{5}{2}g - 15$

6)  $11.85 = 2.1n + 4.5$

7)  $5(a + 1) = 16$

8)  $-2(6 - x) = 11$

9)  $-(7 - 10x) = 23$

10)  $22 = 4(g - 2)$

11)  $2.4(3 + 4b) = 31$

12)  $-7(2y - 3) = 21$

**For #13 – 14:** Cynthia is visiting the state fair. The cost of admittance is \$17.50. This price includes a \$5.20 concert ticket and the cost of three passes: one for the rides, one for the animal show, and one for the games. Each of the passes costs the same.

13) Write an equation for the situation. Use  $x$  for the price of one pass.

14) Solve the equation. What is the price of one pass?

**1.1 Self-Reflection:**

A) **How much do you agree with this statement?** I showed persistence on this assignment, because I tried the problems that were hard for me, and I gave my best effort even when it was challenging.

- 1) strongly disagree      2) disagree      3) agree      4) strongly agree

B) **How much do you agree with this statement?** When I felt frustrated on this assignment, I was able to calm myself down and then focus on trying the problems.

- 1) strongly disagree      2) disagree      3) agree      4) strongly agree

C) **How much do you agree with this statement?** When I needed help on this assignment, I used **appropriate** resources (such as my notes, watching a video, getting help from others) to try to understand the material.

- 1) strongly disagree      2) disagree      3) agree      4) strongly agree

D) Are you proud of your effort on this assignment? Why or why not?

E) List a goal for your next assignment.

## 1.2 Worksheet

Name \_\_\_\_\_

**For #1 – 12: Solve for each variable. Show your work! You may use a calculator.**

1)  $3g + 10 + g = -2$

2)  $17 = 5x + 2x - 3$

3)  $17 - 4a + 10 + 2a = 11$

4)  $2y - 8 + 3y = 9$

5)  $12d + 3 - d - 14 = 23$

6)  $-15 = 4 - 2h + 3h + 11$

7)  $10x + 5 - 3x + 7 = 12$

8)  $16 = 2(4x - 3) + 5x$

9)  $4(b + 7) + b = -3$

10)  $6m - 3(2m + 8) = 70$

11)  $5x + 8 - 3x - 2 - 2x = 6$

12)  $8(2 - 5b) + 3b = 20$

**1.2 Self-Reflection:**

A. How confident were you on each of the following portions of the assignment? Use the scale below.

0

1

2

3

4

Not confident

Slightly confident

Confident half the time

Confident most the time

Confident all of the time

Portion	Confidence Scale Value
Using the distributive property	
Combining like terms	
Knowing what to do first	
Using inverse operations (adding, subtracting, multiplying, dividing)	
Getting the correct answer	

B. How are you doing so far at being a persistent learner in this class? What are things that you are doing to support your learning? What are things you still need to work on?

C) **How much do you agree with this statement?** When I felt frustrated on this assignment, I was able to calm myself down and then focus on trying the problems.

1) strongly disagree

2) disagree

3) agree

4) strongly agree

## 1.3 Worksheet

Name \_\_\_\_\_

**For #1 – 12: Solve for each variable. Show your work! You may use a calculator.**

1)  $4b + 5 = b - 4$

2)  $-11a + 8 = 3a$

3)  $9h + 3 = 4h + 18$

4)  $2(y + 4) = 3(5 - y)$

5)  $4(3 - 2h) = -5(4h + 6)$

6)  $7x - 3 = 2(5x + 3)$

7)  $12x + 30 = 12x - 10$

8)  $8y + 3 - 2y = 4y - 1$

9)  $11a + 21 = 4a$

10)  $5b - (b + 2) = 4b - 2$

11)  $-8x + 3 = -2x - 11$

12)  $2(6 - y) + 3y = y - 7$

**1.3 Self-Reflection**

A. What is something you are proud of yourself for doing so far in this class?

B. What are you understanding well so far in this class?

C. What are you needing help with so far in this class?

D. What is one behavior that you can implement that will help you be more successful in this class?



## 1.4 Worksheet

Name \_\_\_\_\_

**For #1 – 12: Solve for each variable. Show your work! You may use a calculator.**

1)  $\frac{4b}{9} = \frac{2}{3}$

2)  $-\frac{2}{a} = \frac{5}{6}$

3)  $\frac{10}{3} = \frac{h}{6}$

4)  $\frac{x-1}{4} = \frac{10}{13}$

5)  $\frac{7}{10} = \frac{9}{2a+1}$

6)  $\frac{a+6}{20} = \frac{a-4}{6}$

7)  $\frac{7}{a+5} = \frac{12}{4-3a}$

8)  $6 = \frac{2}{5}x - 4$

9)  $5a - \frac{1}{6} = 2 + \frac{2}{3}a$

10)  $2 - \frac{1}{6}(4b + 3) = 7$

11)  $-3 - \frac{7}{3}x = 8 + x$

12)  $5g - \frac{1}{4}g = 3 + \frac{3}{4}$

**1.4 Self-Reflection:**

A) What level of frustration did you experience while doing this assignment?

0

1

2

3

4

No frustration

A small amount of frustration

Frustrated half the time

Frustrated most the time

Frustrated all of the time

B) How confident were you on each of the following portions of the assignment? Use the scale below.

0

1

2

3

4

Not confident

Slightly confident

Confident half the time

Confident most the time

Confident all of the time

Portion	Confidence Scale Value
Cross-multiplying with proportions	
Dealing with fractions in the problem	
Selecting an inverse operation (add, subtract, multiple, or divide)	
Correctly doing the computation to get the correct answer	

C) Answer the questions below.

**Did you use any resources on this assignment to help you be successful?**

**List the resources you used, if any.** Some options can include referencing your notes, using a calculator, asking a friend or family member for help, or finding a video on the internet to help you.

D) Are you proud of your effort on this assignment? Why or why not?

E) List a goal for your next assignment.

## 1.5 Worksheet

Name \_\_\_\_\_

For #1 – 14: Solve each inequality, and then graph your solution on the provided number line. Show your work! You may use a calculator.

1)  $b - 4 \geq 1$

2)  $a + 11 \leq -2$

3)  $3 > h - 5$



4)  $4b \geq 168$

5)  $-11a \leq -22$

6)  $37 > 5h$



7)  $\frac{x}{6} \geq 11$

8)  $-\frac{2}{3}b > 4$

9)  $12 \leq \frac{h}{-7}$



10)  $4b + 1 \geq -13$

11)  $-11a - 3 \leq -36$

12)  $37 > -5h + 2$



13)  $4a - 7 > -2 + 13a$

14)  $5 - 2(3y + 1) \leq 2$



Almost done! Complete the self-reflection on the back of this page.

**1.5 Self-Reflection:**

A) What level of frustration did you experience while doing this assignment?

0                                      1                                      2                                      3                                      4

No frustration      A small amount of frustration      Frustrated half the time      Frustrated most the time      Frustrated all of the time

B) How confident were you on each of the following portions of the assignment? Use the scale below.

0                                      1                                      2                                      3                                      4

Not confident      Slightly confident      Confident half the time      Confident most the time      Confident all of the time

Portion	Confidence Scale Value
Cross-multiplying with proportions	
Dealing with fractions in the problem	
Selecting an inverse operation (add, subtract, multiple, or divide)	
Correctly doing the computation to get the correct answer	

C) Answer the questions below.

<b>Did you use any resources on this assignment to help you be successful?</b>	
<b>List the resources you used, if any.</b> Some options can include referencing your notes, using a calculator, asking a friend or family member for help, or finding a video on the internet to help you.	

D) Are you proud of your effort on this assignment? Why or why not?

E) List a goal for your next assignment.

1.6 Worksheet

Name \_\_\_\_\_

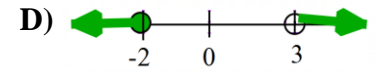
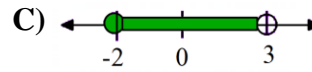
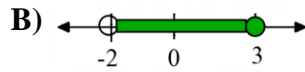
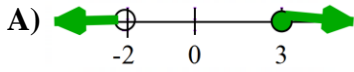
For #1 – 4, MATCH each compound inequality to its graph.

1)  $-2 < x \leq 3$

2)  $x < -2$  or  $x \geq 3$

3)  $x \leq -2$  or  $x > 3$

4)  $-2 \leq x < 3$



For #5 – 10: Solve each compound inequality, and then graph your solution on the provided number line. Show your work! You may use a calculator.

5)  $x + 3 < 11$  or  $2x - 5 > 23$

6)  $-3x + 7 \geq 16$  or  $\frac{1}{6}x > 2$



7)  $-6 < x - 1 \leq 4$

8)  $-2 < 5x + 8 \leq 28$



9)  $2x - 1 \leq -3$  or  $\frac{2}{3}x + 4 > 19$

10)  $0 \geq -\frac{1}{4}x + 1 \geq -5$



**1.6 Self-Reflection**

A. What is something you are proud of yourself for doing so far in this class?

B. What are you understanding well so far on this unit?

C. What are you needing help with so far on this unit?

D. What is one behavior that you can implement that will help you be prepared for the test on this unit?

## Ch 1 Review Worksheet

Name \_\_\_\_\_

For #1 – 15, solve each equation. Show your work, and you may use a calculator.

1)  $3x + 7 = -11$

2)  $\frac{1}{6}b - 8 = 12$

3)  $-\frac{2}{5}a = 16$

4)  $3(7 - 4b) = 26$

5)  $6h - 4 + 2h + 10 = 5$

6)  $11 = 2(y - 3) + y$

7)  $5x - 7 = 3x + 8$

8)  $-2g - 11 + 5g = 6 + g$

9)  $4(2a - 1) = -(6 - a)$

10)  $\frac{6}{w} = \frac{3}{11}$

11)  $\frac{x-3}{4} = \frac{5}{2}$

12)  $-4.2a - 6 = 2.4$

14)  $\frac{1}{3}(x - 4) = 6 + 2x$

15)  $\frac{2}{5}b - 6 = \frac{1}{2}b + 1$

## Ch 1 Review Worksheet, continued...

For #16 – 17, solve equation. Look for unusual situations.

16)  $-4(3x - 1) = 4x + 8 - 16x$

17)  $5h + 11 + h + 7 = 2(9 + 3h)$

For #18 – 20, solve each inequality, and graph the solution on the provided number line.

18)  $-3x + 8 > -7$

19)  $60 \leq 4(3 + 2b)$

20)  $8x - 11 > 3x + 9$



For #21 – 22, solve and graph each compound inequality.

21)  $5x - 3 \leq -22$  or  $\frac{3}{7}x + 1 > 22$

22)  $28 \geq -2x + 1 \geq 2$

