Unit 1 – Consecutive integer Problems
Lesson 4

Name:_____
Date:_____

Directions: For each problem

a. Make an organized list.
b. Write an equation
c. Write your answer in a full sentence

1. Find three consecutive integers whose sum is 126

Organized List Equation

2. Find three consecutive integers whose sum is 915.

Organized List Equation

3. Find three consecutive integers whose sum is 75.

Organized List Equation

4. Find three consecutive integers whose sum is 582.

Organized List Equation

5. Find three consecutive integers whose sum is 465.

Organized List Equation

Unit 1 – Consecutive integer Problems Name:_____
Lesson 4 Date:_____

6. Find two consecutive EVEN integers whose sum is 118.
Organized List Equation

7. Find two consecutive ODD integers whose sum is 56.
Organized List Equation

8. Find two consecutive EVEN integers whose sum is -298.
Organized List Equation

9. Find four consecutive EVEN integers whose sum is 308.
Organized List Equation

10. Find four consecutive ODD integers whose sum is -88.
Organized List Equation

Name: KEY Date: Section

3- 6 Problem Solving Worksheet # 7 CONSECUTIVE INTEGER PRC

Use Problem solving 1,2,3,4, Write an equation for each then solve each problem.

1. Find three consecutive integers whose sum is 126.

Organized list

1st # = n
2nd # = n+1
3rd # = n+2
3n+3

Equation

$3n+3=126$
$-3 \quad -3$
$\frac{3n}{3}=\frac{123}{3}$
$n=41$

Problem Solving 1,2,3,4
1. What are 3 consecutive integers that add up to 126?
2. list, equation
3. n=41
4. The numbers are 41, 42, 43

2. Find three consecutive integers whose sum is 915.

Organized list

1st # = n
2nd # = n+1
3rd # = n+2
3n+3

Equation

$3n+3=915$
$-3 \quad -3$
$\frac{3n}{3}=\frac{912}{3}$
$n=304$

Problem Solving 1,2,3,4
1. What are 3 consecutive integers that add up to 915?
2. list, equation
3. n=304
4. The numbers are 304, 305 & 306

3. Find three consecutive integers whose sum is 75.

Organized list

1st # = n
2nd # = n+1
3rd # = n+2
3n+3

Equation

$3n+3=75$
$-3 \quad -3$
$\frac{3n}{3}=\frac{72}{3}$
$n=24$

Problem Solving 1,2,3,4
1. What are the 3 consecutive integers that add up to 75?
2. list, equation
3. n=24
4. The numbers are 24, 25 & 26

4. Find three consecutive integers whose sum is 582.

Organized list

1st # = n
2nd # = n+1
3rd # = n+2
3n+3

Equation

$3n+3=582$
$-3 \quad -3$
$\frac{3n}{3}=\frac{579}{3}$
$n=193$

Problem Solving 1,2,3,4
1. What are the 3 consecutive integers that add up to 582?
2. list, equation
3. n=193
4. The numbers are 193, 194 and 195

5. Find three consecutive integers whose sum is 465.

Organized list

1st # = n
2nd # = n+1
3rd # = n+2
3n+3

Equation

$3n+3=465$
$-3 \quad -3$
$\frac{3n}{3}=\frac{462}{3}$
$n=154$

Problem Solving 1,2,3,4
1. What are the 3 consecutive integers that add up to 465?
2. list, equation
3. n=154
4. The numbers are 154, 155 and 156

6. Find two consecutive EVEN integers whose sum is 118.

Organized list

1st # = n = 58
2nd # = n+2 = 60
2n+2

Equation

$2n+2=118$
$-2 \quad -2$
$\frac{2n}{2}=\frac{116}{2}$
$n=58$

Problem Solving 1,2,3,4
1. What 2 consecutive even integers add up to 116?
2. list, equation
3. n = 58
4. The numbers are 58 + 60

7. Find two consecutive ODD integers whose sum is 56.

Organized list

1st # = n = 27
2nd # = n+2 = 29
2n+2

Equation

$2n+2=56$
$-2 \quad -2$
$\frac{2n}{2}=\frac{54}{2}$
$n=27$

Problem Solving 1,2,3,4
1. What 2 consecutive ODD integers add up to 56
2. list, equation
3. n = 27
4. The numbers are 27 and 29

8. Find two consecutive EVEN integers whose sum is -298.

Organized list

1st # = n = -150
2nd # = n+2 = -148
2n+2

Equation

$2n+2=-298$
$-2 \quad -2$
$\frac{2n}{2}=\frac{-300}{2}$
$n=-150$

Problem Solving 1,2,3,4
1. What 2 consecutive EVEN integers add up to -298?
2. list, equation
3. n = -150
4. The numbers are -150 and -148.

9. Find four consecutive EVEN integers whose sum is 308.

Organized list

1st # = n = 74
2nd # = n+2 = 76
3rd # = n+4 = 78
4th # = n+6 = 80
4n+12

Equation

$4n+12=308$
$-12 \quad -12$
$4n=296$
$n=74$

Problem Solving 1,2,3,4
1. What 4 consecutive even integers add up to 308
2. list, equation
3. n = 74
4. The numbers are 74, 76, 78, 80

10. Find four consecutive ODD integers whose sum is -88.

Organized list

1st # = n
2nd # = n+2
3rd # = n+4
4th # = n+6
4n+12

Equation

$4n+12=-88$
$-12 \quad -12$
$\frac{4n}{4}=\frac{-100}{4}$
$n=-25$

Problem Solving 1,2,3,4
1. What 4 consecutive even integers add up to -88
2. list, equation
3. n = -25
4. The numbers are -25, -23, -21, -19