

2.4 Problem Solving DAY TWO CYU

Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake

H Use when you could do it alone with a little help from teacher or peer

G Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

N Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Next Integers	1, 2	5, 6	3, 4, 7 - 12
Sum of consecutive integers	1, 2	5, 6	3, 4, 7 - 12
Simplifying Expressions	1, 2	5, 6	3, 4, 7 - 12

1 - 8: Fill in the table provided.

Question	First Integer	Next Integers			Indicated Sum, Then Simplify.
1. three consecutive integers	Integer : x	x + 1	x + 2		$3x + 3$
2. three consecutive integers	Integer: x	x + 1	x + 2		$2x + 3$
3. three consecutive even integers	Even integer: x	x + 2	x + 4		$2x + 4$
4. three consecutive odd integers	Odd integer: x	x + 2	x + 4		$3x + 6$
5. four consecutive integers	Integer: x	x + 1	x + 2	x + 3	$4x + 6$
6. four consecutive integers	Integer: x	x + 1	x + 2	x + 3	$2x + 3$
7. three consecutive odd integers	Odd integer: x	x + 2	x + 4		$2x + 6$
8. three consecutive even integers	Even integer: x	x + 2	x + 4		$3x + 6$

9 – 12: Solve the word problems for consecutive integers.

9. The left and right page numbers of an open book are two consecutive integers whose sum is 469. Find these page numbers.

page: 234 & 235

10. The room numbers of two adjacent classrooms are two consecutive even numbers. If their sum is 654, find the classroom numbers.

room: 326 & 328

11. To make an international telephone call, you need the code for the country you are calling. The codes for Belgium, France, and Spain are three consecutive integers whose sum is 99. Find the code for each country.

↓ ↓ ↓
32 33 34

12. To make an international telephone call, you need the code for the country you are calling. The codes for Mali Republic, Côte d'Ivoire, and Niger are three consecutive odd integers whose sum is 675. Find the code for each country.

Mali: 223; Côte: 225, Niger: 227

13 – 16: Spiral Review from past chapters: Evaluate each expression for the given values.

13. $2W + 2L$ when $W = 7$ and $L = 10$

34

14. $\frac{1}{2}Bh$ when $B = 14$ and $h = 22$

154

15. πr^2 when $r = 15$

225π

16. $r \cdot t$ when $r = 15$ and $t = 2$

30

CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

