	1/
Name: _	Key
	(

Date:

Hr:

2.4 - 2.5 Quiz Review 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)

NUse when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Problem Solving	3	1, 13	2
Formulas & Problem Solving	4, 6, 8	7	5, 9
Evaluating Equations	4, 8	1	9
Solving Literal Equations	6	7	5
Solving Equations	10	12	11
Solving & Graphing Inequalities		14	

2.4 An Introduction to Problem Solving

Solve each of the following.

1. A 12-foot board is to be divided into two pieces so that one piece is twice as long as the other. If x represents the length of the shorter piece, find the length of each piece.

4f+ \$8f+

- 2. Find three consecutive integers whose sum is -114.

3. Double the sum of a number and 6 is the opposite of the number. Find the number.

2.5 Formulas & Problem Solving

Substitute the given values into the given formulas and solve for the unknowns variable.

4.
$$V = lwh$$
; $V = 192$, $l = 8$, $w = 6$

Solve each equation as indicated.

5.
$$r = vst - 5$$
 for s

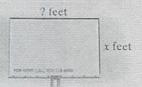
6.
$$3x - 6y = -2$$
 for y

7.
$$C = 2\pi r$$
 for π

$$T = \frac{C}{2r}$$

8. The perimeter of a rectangular billboard is 60 feet and has a length 6 feet longer than its width. Find the dimensions of the billboard.

12ft by 18ft



9. On April 28, 2001, the highest temperature recorded in the United States was 104° F, which occurred in Death Valley, California. Convert this temperature to degrees Celsius.

40°C

MIXED REVIEW: Solve each equation.

10.
$$2(3y-4)=6+7y$$

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

12.
$$7x - 3x + 2 = 2(2x - 1)$$

Ø

Solve.

13. A 23-inch piece of string is to be cut into two pieces so that the length of the longer piece is three more than four times the shorter piece. If x represents the length of the shorter piece, find the lengths of both pieces.

4in by 19in

Solve each inequality. Graph the solution set.

14. -5x < 20

X>-4

-4

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.

