

4.5 Systems of Linear Equations Problem Solving DAY THREE 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
Reading carefully and checking what makes sense	1, 2		
Determining variables		3, 4	5, 6
Writing equations		3, 4	5, 6
Solving systems		3, 4	5, 6
Writing answers in terms of the problem		3, 4	5, 6
Checking answers to systems		3, 4	5, 6

Without actually solving each problem, choose each correct solution by deciding which choice satisfies the given conditions.

- Kesha has a total of 100 coins, all of which are either dimes or quarters. The total value of the coins is \$13.00. Find the number of each type of coin.
 - A. 80 dimes & 20 quarters
 - B. 20 dimes & 44 quarters
 - C. 60 dimes & 40 quarters
- Samuel has 28 gallons of saline solution available in two large containers at his pharmacy. One container holds three times as much as the other container. Find the capacity of each container.
 - A. 15 gallons & 5 gallons
 - B. 20 gallons & 8 gallons
 - C. 21 gallons & 7 gallons

Determine the variables, write the equations, solve the problem, and write your answer in a complete sentence in terms of the problem. Finally, show that you checked your answer.

- Keiko has a total of \$6500, which she has invested in two accounts. The larger account is \$800 greater than the smaller account. (Let x be the amount of money in the larger account.)

Variables

Equations

Solve

Check

Solution

The larger amount is \$3650 and the smaller amount is \$2850.

4. Dominique has four times as much money in his savings account as in his checking account. The total amount is \$2300. (Let x be the amount of money in his checking account.)

Variables

Equations

Solve

Check

Solution *Dominique has \$460 in checking, and \$1840 in savings.*

5. Adrian Gonzalez of the Los Angeles Dodgers led Major League Baseball in runs batted in for the 2014 regular season. Mike Trout of the Los Angeles Angels of Anaheim, who came in second to Gonzalez, had 5 fewer runs batted in for the 2014 regular season. Together, these players brought home 227 runs during the regular 2014 season. How many runs batted in was accounted for by each player?

*Gonzalez : 116
Trout : 111*

6. The highest scorer during the 2013 WNBA regular season was Angel McCoughtry of the Atlanta Dream. Over the season, McCoughtry scored 60 more points than the second-highest scorer, Diana Taurasi of the Phoenix Mercury. Together, McCoughtry and Taurasi scored 1362 points during the 2013 regular season. How many points did each player score over the course of the season?

*McCoughtry : 711
Taurasi : 651*

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.

