

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

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

1. Two computer disks and three notebooks cost \$17. However, five computer disks and four notebooks cost \$32. Find the price of each.

- A. notebook = \$4, computer disk = \$3
- B. notebook = \$3, computer disk = \$4
- C. notebook = \$5, computer disk = \$2

2. Two music CD's and four music cassette tapes cost a total of \$40. However, three music CDs and five cassette tapes cost \$55. Find the price of each.

- A. CD = \$12, cassette = \$4
- B. CD = \$15, cassette = \$2
- C. CD = \$10, cassette = \$5

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.

3. A smaller number and a larger number add up to 15 and have a difference of 7. (Let x be the larger number.)

Variables

Equations

Solve

Check

Solution

The larger # is 11 & the smaller # is 4.

4. The total of two numbers is 16. The first number plus 2 more than 3 times the second equals 18. (Let x be the first number.)

Variables

Equations

Solve

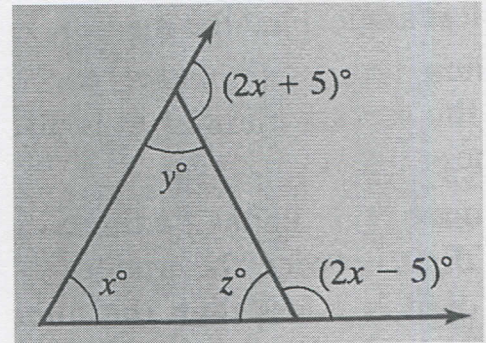
Check

Solution The 1st # is 16 & the 2nd # is 0.

Throwback to Geometry

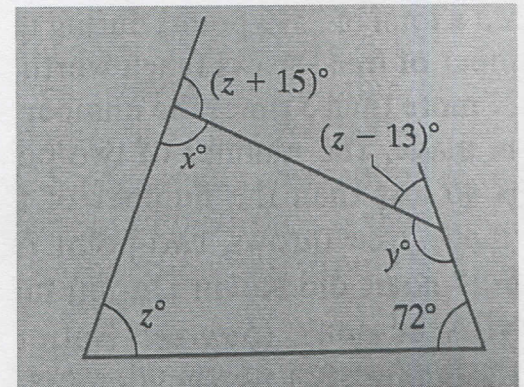
5. Find the values of x , y , and z in the following triangle.

$$\begin{aligned} x &= 60 \\ y &= 55 \\ z &= 65 \end{aligned}$$



6. The sum of the measures of the angles of a quadrilateral is 360° . Find the values of x , y , and z in the following quadrilateral.

$$\begin{aligned} x &= 95 \\ y &= 123 \\ z &= 70 \end{aligned}$$



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.

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1	2	3	4	5	6	7	8
Basic		Intermediate			Advanced		Solved ALL!

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