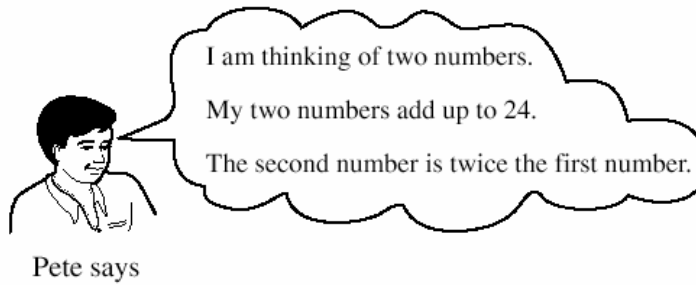


Student Task	Use mathematical reasoning to solve number problems.
Core Idea 2 Mathematical Reasoning	Employ forms of mathematical reasoning and justification appropriately to the solution of a problem. <ul style="list-style-type: none">• Extract pertinent information from situations and determine what additional information is needed• Verify and interpret results of a problem.• Invoke problem-solving strategies• Use mathematical language and representations including numerical tales and equations, simple algebraic equations, formulas, and graphs to make complex situations easier to understand
Core Idea 3 Algebra and Functions	Understand relations and functions, analyze mathematical situations, and use models to solve problems involving quantity and change. <ul style="list-style-type: none">• Recognize and generate equivalent forms of simple algebraic expressions and solve linear equations

Pete's Numbers

This problem gives you the chance to:

- solve and make up number problems
-



1. Which two numbers is Pete thinking of? _____
Show your work.

2. Tina thinks of two numbers. She says, "My two numbers add up to 12.
Three times my first number plus twice my second number is 29."

Which two numbers is she thinking of? _____
Show your work.

3. Pete thinks of two different numbers. He says, "When I add my second number to twice
my first number, the total is 10. When I add twice my second number to my first number,
the total is 11."

Which two numbers is Pete thinking of? _____
Show your work.

8

Pete's Numbers		Test 8 Form A Rubric	
The core elements of performance required by this task are: • solve and make up number problems Based on these, credit for specific aspects of performance should be assigned as follows:		Points	Section Points
1. Gives correct answers as: 8 and 16 Shows that these numbers fit the conditions.	1 1		2
2. Gives correct answers as: 5 and 7 Shows that these numbers fit the conditions.	2 1		3
3. Gives correct answers as: 3 and 4 Shows that these numbers fit the conditions.	2 1		3
Total Points			8

Published by CTB/McGraw-Hill LLC. Copyright © 2003
 by Mathematics Assessment Resource Service. All rights reserved.

Eighth Grade – 2003